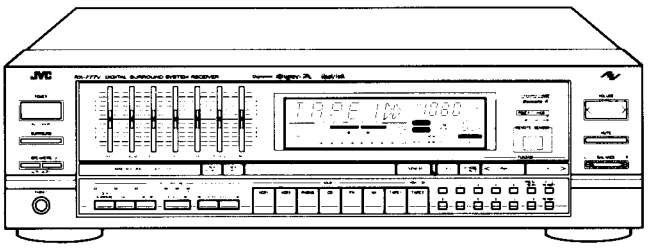
RX-777VBK
RX-777VSBK
RX-777VLBK

# JVC

# SERVICE MANUAL

## COMPUTER CONTROLLED RECEIVER

MODEL No. **RX-777VBK**
**RX-777VSBK**
**RX-777VLBK**



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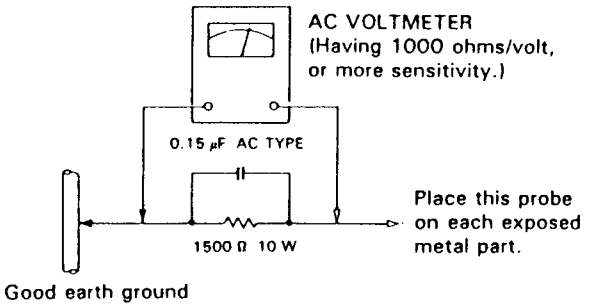
No. 20055
May. 1988

# Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by ( ⚠ ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).




# Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

# Instruction Book

## SPECIFICATIONS

**AMPLIFIER SECTION**

Output power:
(CD IN → SP. OUT)
2-channel operation : **80 watts per channel, min, RMS, both channels driven into 8 ohms from 20 Hz to 20 kHz, with no more than 0.007 % total harmonic distortion**
80 watts per channel, min, RMS, both channels driven into 8 ohms at 1 kHz, with no more than 0.003 %** total harmonic distortion
4-channel operation
Front channel : **75 watts per channel, min, RMS, both channels driven into 8 ohms from 20 Hz to 20 kHz, with no more than 0.007 % total harmonic distortion**
Rear channel : 7 watts per channel, min, RMS, both channels driven into 8 ohms at 1 kHz, with no more than 0.7 % total harmonic distortion
Total harmonic distortion : 0.003 %** at 80 watts (1 kHz, 8 ohms)
Intermodulation distortion : 0.007 % at 80 watts
Input sensitivity/impedance
PHONO : 2.5 mV/47 kohms
TAPE 1 PLAY, TAPE 2 PLAY, CD, VCR 1 PLAY, VCR 2 PLAY : 220 mV/45 kohms
Recording output level : 220 mV
Frequency response
PHONO (RIAA equalization) : 20 Hz – 20 kHz ±0.5 dB
CD, TAPE 1, TAPE 2, VCR 1, VCR 2 : 5 Hz – 50 kHz +0 dB/–1 dB
S.E.A. graphic equalizer
Center frequencies : 63 Hz, 160 Hz, 400 Hz, 1 kHz, 2.5 kHz, 6.3 kHz, 16 kHz
Control range : ±10 dB
Signal-to-noise ratio
PHONO : 71 dB ('66 IHF), 78 dB ('78 IHF)
CD, TAPE 1, TAPE 2, VCR 1, VCR 2 : 100 dB ('66 IHF), 85 dB ('78 IHF)

**FM TUNER SECTION (IHF)**

Tuning range : 87.5 MHz – 108.0 MHz
Usable sensitivity : Mono 10.8 dBf, 0.9 μV/75 ohms
50 dB quieting sensitivity : Mono 16.3 dBf, 1.8 μV/75 ohms
Stereo 38.3 dBf, 22.5 μV/75 ohms
Signal-to-noise ratio : Mono 82 dB
Stereo 73 dB (A-net)
Total harmonic distortion 1 kHz : Mono 0.15 %
Stereo 0.2 %
Frequency response : 30 Hz – 15 kHz +0.5 dB/–3 dB
Capture ratio : 1.5 dB
Alternate channel selectivity : 70 dB ±400 kHz
Image response ratio : 56 dB at 98 MHz
IF response ratio : 85 dB at 98 MHz
Stereo separation : 40 dB at 1 kHz

**AM TUNER SECTION (IHF)**

Tuning range : 530 kHz – 1,710 kHz
Sensitivity : 30 μV* (external), 300 μV/m* (loop antenna)
Signal-to-noise ratio : 50 dB* (100 mV/m)
Selectivity : 38 dB ±10 kHz
Image response ratio : 40 dB*
IF response ratio : 65 dB
Total harmonic distortion : 0.5 % (100 mV/m)

**VIDEO SECTION**

Output signal level (VCR 1 REC, VCR 2 REC, MONITOR OUT) : 1 Vp-p (at 1 Vp-p input)
Impedance : 75 ohms, unbalanced
Synchronization : Negative
Signal-to-noise ratio : 45 dB
Crosstalk : 45 dB (3.58 MHz)

**GENERAL**

Power requirements : AC 120 V~, 60 Hz
Power consumption : 325 watts, 425 VA
Dimensions (W x H x D) : 17-3/16" x 5" x 15-1/8" (435 x 126 x 383 mm)
Weight : 19.9 lbs (9.0 kg)

* Measured at 1,000 kHz for IHF.
** Measured by JVC Audio Analysis System.

***Design and specifications subject to change without notice.***

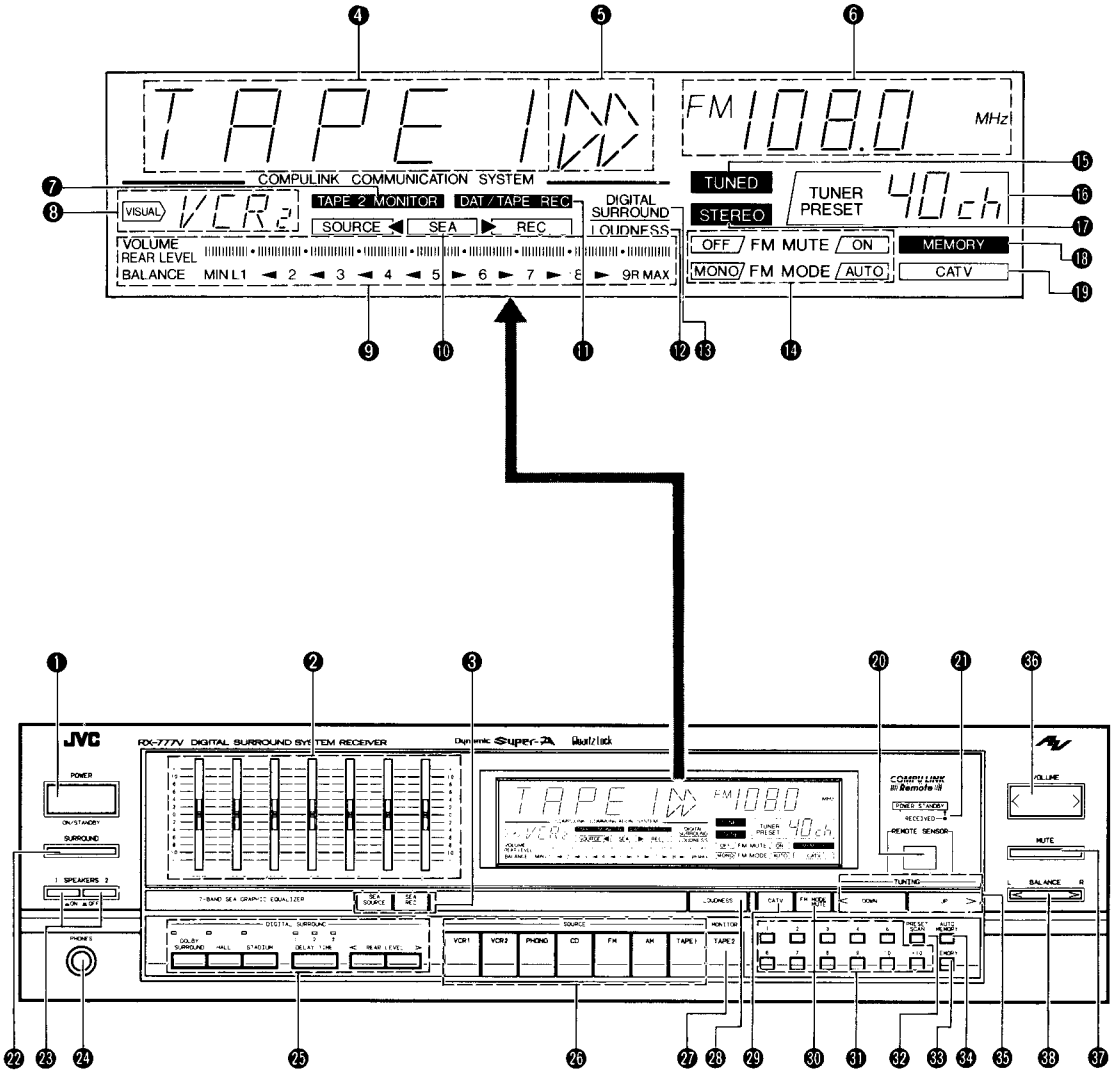

TAPE IN
FM 108.0 MHz
COMPULINK COMMUNICATION SYSTEM
VISUAL
VCR2
TAPE 2 MONITOR
DAT / TAPE REC
SOURCE
SEA
REC
DIGITAL SURROUND
LOUDNESS
TUNED
STEREO
TUNER PRESET 40ch
OFF / FM MUTE / ON
MONO / FM MODE / AUTO
MEMORY
CATV
VOLUME
REAR LEVEL
BALANCE MIN L1 2 3 4 5 6 7 8 9R MAX
JVC
RX-777V DIGITAL SURROUND SYSTEM RECEIVER
POWER
SURROUND
PHONES
VOLUME
MUTE
BALANCE
TUNING
REMOTE SENSOR

Fig. 13

# FRONT PANEL

**❶ POWER**

**ON:** Press to turn the power on. To turn the power off, press again. Even when the power is turned off, the POWER STANDBY indicator remains lit unless the receiver is unplugged from the wall outlet.

**STANDBY:** Even when indicators other than POWER STANDBY are not lit, the memory circuit operates and preset and source select data, etc. are not lost and cannot be altered by accident as long as the power cord is plugged into an AC outlet. This is called the POWER STANDBY mode. The preset data and the source select data are maintained even in the case of a power failure or when the power is not applied does not exceed a couple of days.

**Notes:**

- **Even in the POWER STANDBY mode, this receiver consumes a small amount of electricity (2 watts). To shut off the power completely, disconnect the power cord.**
- **POWER STANDBY indicator:**
  **Connecting the power plug to the AC wall outlet causes this indicator to light, indicating that the unit has been set to the POWER STANDBY mode.**
- **When the power is tuned on, the operation buttons may not work correctly and abnormal indications may appear. If this happens, unplug the power cord from the AC outlet and insert it again.**

**❷ 7-BAND SEA GRAPHIC EQUALIZER**

The built-in graphic equalizer divides the audio spectrum into seven frequency bands with center frequencies from 63 Hz to 16 kHz at intervals of 4/3 octave.

When the S.E.A. level is set to "0" (center position), the frequency response is flat. The response can be varied by ±10 dB by raising or lowering the knob.

**63 Hz:** Raise to emphasize the very low bass response of organs, drums, and contrabass. It produces stable and solid sound with emphasis and eliminates the unclear response at low frequencies when de-emphasized.

**160 Hz:** Emphasize to obtain a more expanded low frequency sound. De-emphasize to eliminate unclear sound caused by large or nearly empty listening rooms.

**400 Hz:** This frequency range is the base on which music is constructed. Emphasize to really put a punch in your music.

**1 kHz:** Most effective in emphasizing or de-emphasizing the human voice. Emphasize to cause the vocalist to be brought to the foreground, or de-emphasize to cause it to recede into the background.

**2.5 kHz:** The human ear is most sensitive to this frequency. If the music sounds hard or metallic, de-emphasize it.

**6.3 kHz:** Boost to add clarity to winds and strings. This frequency band varies the tonal expression, and has most influence on the subtleties of the music.

**16 kHz:** Boosting this frequency range properly adds to the delicacy of highs, with cymbals and triangles resounding in a more ear-pleasing manner, and provides a feeling of extension. This frequency band can also be used to compensate for cartridge response since most moving-magnet cartridges have their resonance peaks in the frequency range from 10 kHz to 20 kHz.

**❸ SEA**

**SEA SOURCE:** Press this button to listen to S.E.A.-compensated sound.

**SEA REC:** Press this button to record S.E.A.-compensated signals.

**Note:**

- **S.E.A.-compensated sound is not available to the TAPE 2 REC, SURROUND SPEAKERS and REAR PRE OUT terminals.**

**❹ SOURCE OPERATION indicator**

This shows the audio signal selected with the source selectors, to be output from the speakers or recorded. When the MUTE button is pressed to cut the sound, "MUTE" is displayed. Pressing the button again will release the MUTE function and the source indication will be restored. When the MUTE button on the remote control unit is pressed, the display shows "MUTE"; when it is pressed again, "OFF" will be displayed. When the TAPE 2 button of the remote control unit is pressed, "ON" or "OFF" is shown: when the 10-KEY keypad is used "1" – "10", "+10" and "0" are shown in the display.

**❺ Operation symbol indicator**

When any of the [▶], [■], [⏮], [⏭], [⏸], [◀◀] and [▶▶] buttons of the remote control unit is pressed, the corresponding indicator lights. (See page 24.)

**❻ FM/AM indicator**

The "FM" indicator lights during FM broadcast reception, and "AM" lights during AM broadcast reception, while the frequency being received is also displayed.

**❼ TAPE 2 MONITOR indicator**

When the TAPE 2 button has been pressed, this indicator lights.

**❽ VISUAL indicator**

This shows when a video signal has been selected with the VIDEO source selectors, for playback or recording.

**❾ VOLUME/REAR LEVEL/BALANCE indicator**

Normally the "VOLUME" indicator lights and the volume of the speaker or headphone sound corresponding to that set with the VOLUME buttons is displayed by the bar graph indicators.

When the REAR LEVEL buttons is pressed, the "REAR LEVEL" indicator lights, and the REAR PRE OUT level and rear speaker volume will be indicated as a proportion of the front speaker volume.

When the BALANCE button is pressed, the "BALANCE" indicator lights and the balance between the left and right channels will be indicated by the arrows.

The "REAR LEVEL" and "BALANCE" indications will last for about 5 seconds, and then the "VOLUME" display resumes.

**Note:**

- **Even when the REAR LEVEL is set to minimum, there will be low level output sound, and the leftmost bar of the VOLUME indicator will be lit.**

**❿ SEA indicator**

When the SEA SOURCE button is pressed, "SOURCE" lights to show that the S.E.A. is processing the signals fed to the speakers or headphones.

When the SEA REC button is pressed, "REC" lights to show that the S.E.A. is processing the signals output from the REC OUT terminals.

**⓫ DAT/TAPE REC indicator**

This indicator lights for about 5 seconds when the DAT (Digital Audio Tape) deck or cassette deck enters the record mode under the control of the remote control unit.

**⓬ LOUDNESS indicator**

When the LOUDNESS button has been pressed, this indicator lights.

**⓭ DIGITAL SURROUND indicator**

This indicator lights when the SURROUND button is pressed to activate the surround mode.

**⓮ FM MUTE/FM MODE indicator**

These indicators show "AUTO/ON" or "MONO/OFF" according to the setting of the FM MODE/MUTE button.

**⓯ TUNED indicator**

When tuned to the center frequency of a broadcast, this indicator lights.

**⓰ TUNER PRESET indicator**

This shows the preset channel selected by the 10-KEY buttons, for a total of 40 FM and AM stations. It also shows the station number while programming or monitoring programmed broadcasts.

**⓱ STEREO indicator**

When an FM stereo broadcast is being received, this indicator lights. When the MODE indicator shows "MONO", it will not light even if a stereo FM broadcast is received. If you wish to receive the broadest in stereo, press the FM MODE/MUTE button so that "AUTO" is shown.

**⓲ MEMORY indicator**

This indicator lights for about five seconds when the MEMORY button is pressed to on, and for one second when a frequency is stored in memory during auto memory operation.

**⓳ CATV indicator**

When the CATV button is pressed to on, this indicator lights to show that the receiver is set to receive CATV programs.

**⓴ REMOTE SENSOR**

This window receives signals from the remote control unit. Do not obstruct it.

**㉑ RECEIVED/POWER STANDBY indicator**

This indicator lights when a signal is received from the remote control unit. It remains lit continuously when the POWER button is off, to show that the receiver is in the POWER STANDBY mode.

**㉒ SURROUND**

Press this button when surround sound is required; the "DIGITAL SURROUND" indicator lights.

When the surround sound is not required, press this button again; the indicator goes out.

**Note:**

- **With the SURROUND button set to off, no sound will be output from the rear speakers connected the SURROUND SPEAKERS terminals.**

**㉓ SPEAKERS**

**SPEAKERS 1:** Press to switch the speakers connected to the SPEAKERS 1 terminals on or off.

**SPEAKERS 2:** Press to switch the speakers connected to the SPEAKERS 2 terminals on or off.

**Note:**

- **When speakers are connected to only one set of SPEAKERS terminals, press only the SPEAKERS button of the system connected; If both buttons are pressed, sound will not be heard from either speaker system. When two pairs of speakers are connected and either or both the SPEAKERS buttons are pressed, sound will be heard from the speakers selected.**

● **PHONES (Headphone jack)**
Plug stereo headphones into this jack for private listening and to monitor recording. If you want to listen to sound from the headphones only, press the SPEAKERS buttons to OFF.

● **DIGITAL SURROUND**
When the surround sound effect is required, first press the SURROUND button, then press any of the following buttons. The indicator above the selected button will light.
**DOLBY SURROUND:** Press this button when playing back a program source encoded with Dolby Surround sound. Dynamic and three-dimensional surround sound (as in a movie theater) will be obtained.
**HALL:** When this button is pressed while listening to a normal stereo source, the sound field will be expanded and a surround sound effect with a hall ambience will be obtained.
**STADIUM:** When this button is pressed while listening to a normal stereo source, a dynamic surround sound effect with the feeling of a stadium is obtained.

• **DOLBY SURROUND***
Many video programs (video tapes and video discs) available today have a "DOLBY SURROUND" mark showing that they have been transcribed with a Dolby Stereo soundtrack. The soundtrack of these movies includes exactly the same surround sound information as the films you see in movie theaters. As the RX-777VBK/VSBK incorporates a Dolby Surround decoder circuit, you can get a similar effect to that in a movie theater equipped with Dolby Stereo, in your home. The RX-777VBK/VSBK will turn your listening room into a home movie theater!

* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. Numbers 3,632,886, 3,746,792 and 3,959,590.
"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation

**DELAY TIME:** This button is used to adjust the duration of reverberations so that the surround sound signal components included in the program source match the response of your listening room
Each time this button is pressed, the delay time setting is changed in the order ↱1→2→3↰. The indicator above the number selected number will light.
1 :Select this position when the listeners and the rear speakers are relatively distant from the front speakers.
2 :Normally set to this position. (First select this position and play the source, then, adjust to find the most effective position for the program source.)
3 :Select this position when the listeners and the rear speakers are relatively close to the front speakers.

**REAR LEVEL:** Adjust the level of the signal output to the REAR PRE OUT terminals and the rear speakers relative to that of the front speakers with these buttons. Press the > button to increase the relative volume level and press the < button to decrease it. The set level is shown in the display for about 5 seconds.

● **SOURCE**
**– VIDEO –**
**VCR 1:** Press this button to watch and listen to the source from the VCR connected to the VCR 1 terminals.
**VCR 2:** Press this button to watch and listen to the source from the VCR connected to the VCR 2 terminals.
**– AUDIO –**
**PHONO:** Press to listen to a turntable connected to the PHONO terminals.
**CD:** Press this button to listen to a compact disc player connected to the CD terminals.
**FM:** Press this button to listen to an FM broadcast.
**AM:** Press this button to listen to an AM broadcast.
**TAPE 1:** Press to listen to a tape deck connected to the TAPE 1 terminals.

● **MONITOR**
**TAPE 2:** Press this button to listen to a tape deck connected to the TAPE 2 terminals. If this button is pressed again, it will release this function so that the source selected by another source selected button can be heard.

● **LOUDNESS**
Press this button to compensate for the ear's lower sensitivity at low listening levels.

● **CATV**
Use this button when a separate CATV Antenna Control Unit is used. When connecting the CATV cable to receive CATV programs or if the FM antenna is connected to "CATV IN" of the CATV Antenna Control Unit for the reception of FM broadcasts, push this button so that the CATV indicator lights. Even when the CATV indicator is not lit, you can listen to broadcasts received by the antenna connected to the EXT. FM IN terminal of the CATV antenna control unit. CATV button functions can also be stored in each preset station together with the frequency.

● **FM MODE/MUTE**
For normal FM reception for the automatic elimination of interstation noise, press this button so that FM MODE "AUTO" and FM MUTE "ON" light in the display.
When receiving a weak or noisy FM stereo broadcast, press this button so that FM MODE "MONO" and FM MUTE "OFF" light; the broadcast will be heard in mono but reception will be clearer.

● **TUNER 10-KEY (1 to 10, +10)**
Up to 40 FM and AM broadcast frequencies can be preset in this receiver's memory. After presetting, select the desired channel by inputting the preset channel number with these buttons. When selecting a preset channel numbered "1" to "10", just press the corresponding numeric button.
When selecting preset channels numbered "11" or above, first press the +10 button the required number of times, then press a button from 1 to 10.
For example, to select preset channel 35, first press the +10 key three times, then press 5. Or, to select preset channel "40", press +10 key three times, then 10.
When the desired preset channel is recalled, the display shows the preset channel number and the frequency.

● **PRESET SCAN**
This lets you scan preset channels to find a broadcast you want to listen to. When the PRESET SCAN button is pressed, preset scanning starts. If you have tuned to the current station using the 10-KEY keypad, the tuner scan to the next higher preset channel and the broadcast is received for about 4 seconds with the preset channel number blinking. It then tunes to higher preset channels in sequence. When it reaches the top preset channel, it goes to the bottom channel and scans up until it reaches the original channel, at which point it stops.
If you have tuned to the current station in any other way, scanning will start from preset channel 1 and finish after preset channel 40 has been received, then the broadcast being received before preset scanning was started will be heard again. When you hear a broadcast you want to listen to, press the PRESET SCAN button again to stop preset scanning.

● **MEMORY**
Press this button, and the MEMORY indicator will light to show that it is ready to receive a memory setting. Pressing the station select button while the MEMORY indicator is lit (for about five seconds) store the station in the specified memory. At this time, the channel number is shown in the display.

● **AUTO MEMORY**
Press this button and one of the PRESET CHANNEL numeric keys to scan and preset to broadcasts automatically. Starting from the frequency being displayed, the tuner will scan to higher frequencies until a broadcast is received. The TUNED indicator will light and the channel number you have pressed earlier will flicker for 3 seconds. If you do not wish to store this frequency in memory, press this button within 4 seconds, and scanning will start again. Otherwise, the MEMORY indicator and channel number will light together and the frequency will be stored in the channel memory, after which up-scanning will continue. This process continues until the preset channel with the highest frequency is stored in memory. If the frequency reaches its upper limit, the auto memory function stops and the channel number with the highest frequency in the memory will be shown. If the upper limit of the frequency band is reached before this happens, the upper limit frequency is shown. Otherwise when this process ends, the last frequency tuned to and its corresponding channel number are displayed.

**Note:**
• **To cancel the auto memory function, press any of the buttons in the tuner section other than the AUTO MEMORY button.**

● **TUNING DOWN/UP**
**DOWN ( < ):** Press this button to tune to a lower frequency.
**UP ( > ):** Press this button to tune to a higher frequency.
Holding either button pressed for more than 1 second and then releasing it starts auto tuning. When a broadcast is received, tuning will stop. If either button is held down scanning will continue even when a broadcast is received. In auto tuning, pressing either button stops scanning. When tuning toward higher frequencies, if the upper limit frequency is reached, the frequency will change to the lower limit and then auto tuning restarts in the direction of increasing frequencies. When tuning toward lower frequencies, if the lower limit is reached, the frequency will change to the upper limit and auto tuning restarts in the direction of lower frequencies. The same operation is also performed in AM tuning.
Each time these buttons are tapped, the FM frequency will change in 100 kHz steps, and the AM frequency in 10 kHz steps.

**⑯ VOLUME**
Adjust the volume of speakers or headphones with this button. Press the > (up) side once to increase the volume by one step, and the < (down) side once to decrease it by one step; this level is shown by the VOLUME indicator. Holding down either side of this button will cause the volume to rise or fall continuously.

**⑰ MUTE**
Press this button and the MUTE indicator will light and the sound will be muted instantaneously. To restore the volume to its original level, press this button again, or press the BALANCE or VOLUME button.

**⑱ BALANCE**
Use to adjust the balance between the left and right speakers. Tap the L side to shift the balance to the left by one step and the R side to shift to the right. Holding the button pressed changes the balance continuously. The BALANCE indicator in the display shows the current balance setting.

# OPERATION

## Before use
Connect each component correctly, and then plug the power cord into an AC wall outlet.

## Basic operation
1. Press the POWER button to on.
2. Select the speaker system with the SPEAKERS buttons.
3. Proceed through the steps described below, as required.
4. Adjust the volume and the balance to your requirement.
5. Use the SEA buttons to obtain the tone you want to hear.
6. When a surround sound effect is required, press the SURROUND button and related buttons. (Refer to page 13.)

## Presetting to selected stations (FM AM or CATV)
There are two ways to preset stations using the TUNING buttons: **A. AUTO 'TUNING/MANUAL TUNING, B. AUTO MEMORY FUNCTION.**

**A. –AUTO TUNING/MANUAL TUNING –**
(Refer to ⑬ TUNING DOWN/UP buttons.)
1. Press the FM or AM button.
   When tuning to a CATV FM broadcast, press the FM button, then the CATV button.
2. Tune to a station by pressing the TUNING DOWN/UP button for auto tuning or tapping it for manual tuning.
3. Press the MEMORY button so that the MEMORY indicator lights.
4. Press any of the TUNER 10-KEY keypad buttons to be stored in memory as the preset channel number.
5. Perform the same pre-tuning procedure (steps 2, 3, 4) for the remaining channels.
   Up to 40 stations can be preset for FM and AM stations in total.

**B. – How to operate the AUTO MEMORY FUNCTION –**
(Refer to ㉑ AUTO MEMORY button.)
1. Press the FM or AM button.
   When tuning to a CATV FM broadcast, press the FM button, then the CATV button.
2. Display the frequency from which scanning is to start using the TUNING DOWN/UP button.
3. Press the AUTO MEMORY button and one of the 10-KEY buttons. The MEMORY indicator flickers and auto scanning starts from the displayed frequency towards higher frequencies. When a broadcast is received, the TUNED indicator lights and the selected station number flashes. If you do not press the AUTO MEMORY button again, the MEMORY indicator and the channel number light together and the frequency is stored in memory. This continues until the preset channel with the highest number has a frequency in its memory or auto scanning reaches the highest frequency.

## Listening to broadcasts
1. Press the FM or AM button so taht the "FM" or "AM" is displayed in the SOURCE OPERATION indicator.
2. Select the desired preset channel by pressing the TUNER 10-KEY buttons. The channel number corresponding to the buttons pressed is shown in the display.

**Notes:**
- **Adjust the antenna so that the "TUNED" indicator is lit.**
- **When FM broadcast signals are too weak to be received satisfactorily, press the FM MODE/MUTE button so "MONO/OFF" is shown.**
- **For the reception of AM broadcasts, set the loop antenna to the position where reception is best.**
- **Before listening to broadcasts, first preset the stations correctly; if they are not pre-tuning accurately, reception will be noisy.**

## Listening to records
1. Press the PHONO button so that the "PHONO" is displayed in the SOURCE OPERATION indicator.
2. Operate the turntable as described in its operation manual.

**Notes:**
- **Use a turntable with an MM (moving magnet) cartridge.**
- **If your turntable has a separate ground lead, connect it to the rear panel GND terminal.**

## Listening to CD
1. Press the CD button so that the "CD" is displayed in the SOURCE OPERATION indicator.
2. Operate the CD player as described in its operation manual.

## Listening to tapes
1. Press the TAPE 1 or 2 button so that the "TAPE 1" is displayed in the SOURCE OPERATION indicator or the "TAPE 2 MONITOR" indicator lights.
2. Operate the tape deck for playback as described in its operation manual.

## Watching and listening to VCR 1 (VCR 2)
1. Press the VCR 1 (VCR 2) button so that the SOURCE OPERATION and VISUAL indicators light and "VCR 1" ("VCR 2") is shown with each one.
2. Operate the video unit as described in its operation manual.

## Listening to another audio source, while watching VCR 1 (VCR 2) (Fig. 14)
When you want to listen to an audio source while watching VCR 1 (VCR 2), press the ⑩ VIDEO SOURCE button to watch a video source (such as VCR 1) and then the ⑨ AUDIO SOURCE button to hear an audio source (such as a CD). By doint so, you can enjoy the picture of VCR 1 and the sound of a CD.

**Note:**
- **Connect the video and audio signal cords of the video unit to the AUDIO and VIDEO terminals of this unit. If a unit other than a video unit is connected, connect it to the AUDIO terminals only.**

Fig. 14

## Recording tapes
**– Recording from records –**
1. Press the PHONO button so that the "PHONO" is displayed in the SOURCE OPERATION indicator.
2. Operate the turntable.
3. Operate the tape deck for recording.

**– Recording from other sources (CD, FM, AM, VCR 1, VCR 2) –**
Press the button corresponding to the source to be recorded. All other operations are identical to those when recording from records.

**Note:**
- **The sound you hear from the speakers or headphones is the source sound (record playback sound in this case), not the signal recorded on the tape.**

**– How to operate the monitor while recording onto a tape deck –**
1. Connect a 3-head tape deck to the TAPE 2 terminals.
2. Make sure that the signal cords are connected to the PLAY and REC terminals, and remove the remote cable connected to the tape deck.
3. Select the source from which you want to record by depressing the corresponding SOURCE select button.
4. Operate the tape deck for recording as described in its operation manual.
5. By playing the source component, you can record on the tape deck.
6. While recording on the tape deck, the recorded sound can be heard by pressing the TAPE 2 button on the front panel or remote control unit.

## Tape dubbing
To perform tape dubbing, two tape recorders should be connected, one to the TAPE 1 terminals (called the "No. 1" tape deck) and another to the TAPE 2 (called the "No. 2" tape deck).

**– Dubbing from deck No. 1 to deck No. 2 –**
1. Press the TAPE 1 button. Sound can be monitored through speakers or headphones.
2. Operate the No. 2 tape deck for recording.
3. Operate the No. 1 tape deck for playback.

**– Dubbing from deck No. 2 to deck No. 1 –**
1. Press the TAPE 2 button. Sound can be monitored through speakers or headphones.
2. Operate the No. 1 tape deck for recording.
3. Operate the No. 2 tape deck for playback.

**Notes:**

- **When dubbing from the tape deck (connected to the TAPE 2 terminals) onto the other tape deck, select a button other than "TAPE 1".**
- **When dubbing the SOUND signal from the No. 2 tape deck to VCR 1 or VCR 2, use a selector other than "VCR 1" or "VCR 2".**
- **While playing back a tape on the tape deck (connected to the TAPE 2 terminals), you cannot record other source sounds onto components connected to the REC terminals of TAPE 1, VCR 1 and VCR 2.**
- **During dubbing, S.E.A. recording onto TAPE 2 is impossible.**
- **Dubbing is possible between any of TAPE 1, VCR 1 and VCR 2, and S.E.A. recording is also possible.**
- **Dubbing from VCR 1 to VCR 2 or from VCR 2 to VCR 1 is also possible. In this case, press the source side button (VCR 1 or VCR 2).**

### Using stereo headphones

Stereo headphones can be plugged into the front panel PHONES jack. The signal from this jack is independent of the speakers.

1. Plug the stereo headphones into the PHONES jack for private listening.
2. To listen through headphones while listening to the speakers, press the appropriate SPEAKERS button to ON ( ▬ ).

**Note:**

- **Pull out the headphone plug when not in use.**

### How to perform surround sound play

Place the front and rear speaker systems appropriately referring to "Examples of Speaker Placement in Surround Sound System" on page 14.

1. Press the SURROUND button so that the "DIGITAL SURROUND" indicator lights.
2. Press the desired surround selector mode button (DOLBY SURROUND, HALL or STADIUM).

**Note:**

- **When playing a video program source with a "DOLBY SURROUND" mark on its case, press the DOLBY SURROUND button, and when playing back a normal stereo source, press the HALL or STADIUM button.**

3. Set the delay time appropriately with the DELAY TIME buttons.
4. Play back the program source.
5. Adjust the overall volume level of the front and rear speakers with the VOLUME button, then adjust the relative volume of the rear speakers with the REAR LEVEL buttons.

**Notes:**

- **For details of buttons and indicators in the above operations, refer to the description of the "Front Panel" section.**
- **When playing back or recording in the DOLBY SURROUND mode, be sure to set the ⓢ SEA buttons to OFF to obtain the original information included in the program correctly.**

## EXAMPLES OF SPEAKER PLACEMENT IN SURROUND SOUND SYSTEM

The following diagrams are typical examples for surround sound reproduction.

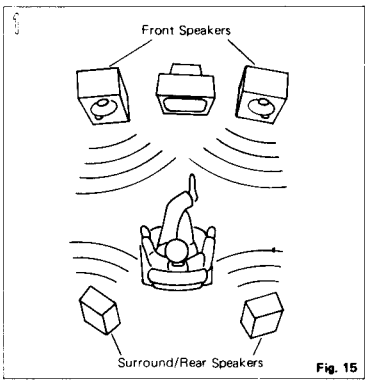


Fig. 15

1. A standard speaker arrangement for surround sound reproduction.
   This configuration gives most effective surround sound with enriched "presence".
   Most suitable for playing program sources encoded with Dolby Surround sound.

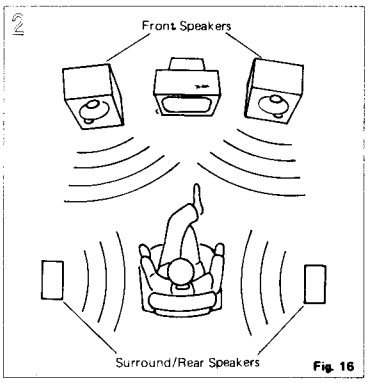


Fig. 16

2. Place the surround speakers at the left and right sides of the listening position. With this configuration, the separation between the front and rear may be slightly decreased, however, the extension of the sound field will be much wider.
   With this placement, set the surround speakers so they are higher than listeners' ears and direct them slightly downward to get a wider sound field.

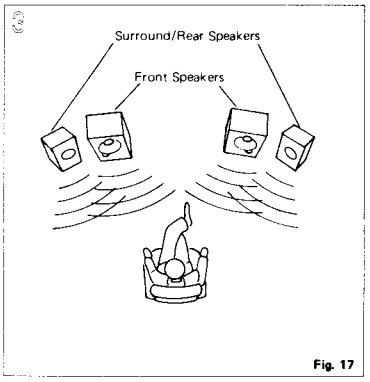


Fig. 17

3. Place four speakers in front of the listening position. Although the feeling of movement will be slightly decreased when playing video programs, it gives more natural width to the sound field.
   This is suitable when you want a stable sound field (or "presence"), especially when playing normal stereo audio sources.

**Note:**

- **If the walls are made of hard wood or plaster, when the surround speakers are placed facing towards the walls (reversing the placement illustrated in the above examples 2 or 3), a more favorable effect may be obtained.**

Movie programs, etc. encoded with the Dolby Surround system are produced so that the volume balance between the front channels and the surround channels is set by the producer of the individual movie. For this reason, it is recommended that you do not set the level of the surround channel too high, to obtain a Dolby Surround sound effect which is closer to that intended.

# REMOTE CONTROL UNIT (RM-SR777/RM-SR777S)

Refer to page 23 and keep it open.

(RM-SR777 only)

The RM-SR777 remote control unit can be programmed to perform up to 48 operations of other remote control units, even from other manufacturers, so that it can be used in place these other remote controls.
For more details, refer to page 18.

**❶ USE/LEARN switch**
When programming the remote control, set this switch to the LEARN position. Later, when recalling functions, set it to USE.

**❷ ERROR indicator (Red)**
This indicator lights when checking memorized key functions, or when a key is pressed by mistake.

**❸ SEND/LEARN indicator (Green)**
In the normal operation mode (with the USE/LEARN switch set to USE), this indicator lights to show that a command has been transmitted.
In the LEARN mode, programming should be performed while this indicator is blinking. It goes out when the operation has been completed.

**❹ 1/2 (Learning key mode select switch)**
The "A" to "X" keys can be programmed with a maximum of 24 functions independently with this switch set to 1 and 2, for a total of 48 functions.

**❺ Learning keys**
Each of these 24 keys can be programmed with the functions of another remote control. With two switch setting, up to 48 functions can be held in the memory of this remote control unit.

(Common to RM-SR777/RM-SR777S)

**❻ POWER**
**AUDIO:** Press this button to switch the RX-777VBK/RX-777VSBK's power on or off.
**TV:** For use with a TV. Press this button to switch the TV's power on or off.
**VCR:** For use with a VCR. Press this button to switch the VCR's power on or off.

**Notes:**
- **Provided one of JVC-specified VCRs and TVs is used, it can be remote-controlled.**
- **Before operating the television or VCR by remote control, be sure to read the television or VCR instruction manual carefully.**

**❼ SLEEP (SLEEP TIMER)**
When this button is pressed, its indicator lights. Each time this button is pressed, the sleep timer's setting increases in 10-minute increments up to 80 minutes. The time set is shown on the display of the RX-777VBK/RX-777VSBK.

**Note:**
- **The sleep timer set time and the time remaining before power will be switched off are shown in the display.**

**❽ PLAY MODE**
Press one of these buttons to select a JVC CD AUTO CHANGER.
**CONTINUE:** Press this button to listen to compact discs loaded in the CD magazine in numerical order regardless of the programmed playback setting.
**PRGM:** Press this button to listen to the compact discs in programmed order.
**MAG. PRGM:** Press this button to listen to the compact discs in the order of the program previously stored for each magazine.
When any play MODE button is pressed, "MODE" is shown in the display.

**❾ CD CHANGER**
These buttons are for use when a disc or track number is to be specified. After pressing one of these buttons, specify the disc or track number with the ● 10-KEY buttons.
**DISC:** To specify a disc No., press this button then press the ● 10-KEY buttons ( 1 – 7/P ) corresponding to the disc. When the 10-KEY buttons are pressed, "–1–" ... "–P–" will be shown in the display.
**TRACK:** To specify a track No., press this button first then press ● 10-KEY buttons ( 1 – 10 , +10 , 0 ) corresponding to the track. When the 10-KEY buttons are pressed; "1", .... "10", "+10", "0" will be shown in the display.

**Notes:**
- **To play a compact disc, press ● ▶ button.**
- **For details of the CD auto changer, refer to its instruction book.**

**● FM**
Press this button to listen to an FM broadcast.

**● AM**
Press this button to listen to an AM broadcast.

**● VCR 1**
Press this button to play (listen to and watch) a VCR connected to the VCR 1 terminals.

**● VCR 2**
Press this button to play (listen to and watch) the VCR connected to the VCR 2 terminals.

**● TV CH**
Press this button then use ● 10-KEY buttons ( 1 – 9 , 0 ) to select the channel.

**● 10-KEY ( 1 – 10 , 0 , +10 )**
These buttons are used for direct access to FM/AM preset channels, or TV channels or VCR channels, as well as to select the track No. of compact discs, the disc No. of the CD changer or the tune number of DAT tape.
**FM/AM:** After the ● FM or ● AM button has been pressed, select the required preset channel. The 0 button is not used at this time. When selecting preset channel 10 or higher, first press the +10 button the required number of times, then one of the 1 to 10 buttons. (See Ex. 1)
**CD/DAT:** After pressing the ● CD or ● DAT button select the track No. or tune No. to be listened to or to be programmed.
When selecting a track or tune with a number of 10 or higher, first press the +10 button the required number of times, then one of the 1 to 10 buttons. (See Ex. 1)

**Notes:**
- **With certain CD players and DAT decks, the track or tune number is selected using buttons from 1 to 9 and 0 . In such a case, to select "6" (for example), press 6 . To select "23", press 2 , then 3 .**
- **For details of operation, refer to the instruction book provided with the CD player or DAT deck.**

RM-SR777

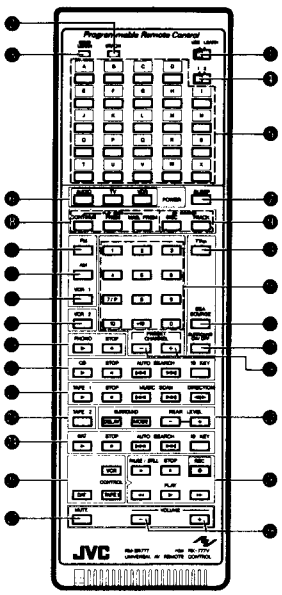


Fig. 22

RM-SR777S

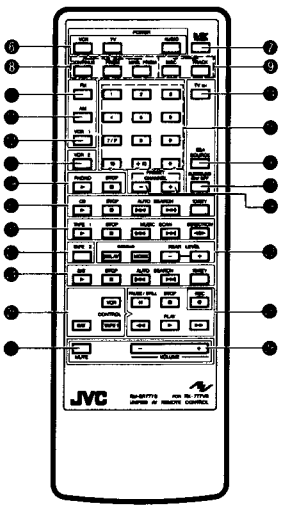


Fig. 23

< **Examples 1** >
5: Press [5] .
10: Press [10] .
17: Press [+10] once, then press [7] .
20: Press [+10] once, then press [10] .
25: Press [+10] twice, then press [5] .

**TV/VCR 1:** After pressing the ● TV CH or ● VCR 1 button, select the required channel using buttons [1] to [9] and [0] . Depending on the VCR or TV used, it may be necessary to press the [0] button first to select a one-digit number. (See Ex. 2)

**Note:**
- **For details of operation, refer to the instruction book of the VCR or TV.**

< **Examples 2** >
4: Press [4] . Or, press [0] then [4] .
13: Press [1] , then [3] .

● **SEA SOURCE**
Press this button to listen to the source with S.E.A. compensation. When the SEA SOURCE button is pressed, "ON" is shown and the "SOURCE" indicator lights; when it is pressed again, "OFF" is shown and "SOURCE" goes out.

● **SURROUND ON/OFF**
Press this button to switch the SURROUND function "ON" and "OFF". When the SURROUND ON/OFF button is pressed once, "ON" is shown and "DIGITAL SURROUND" indicator lights in the display; when it is pressed again, "OFF" is shown and "DIGITAL SURROUND" goes out.

● **PRESET CHANNEL ( [−] , [+] )**
When the FM, AM, TV CH or VCR 1 button has been pressed; preset stations or TV channels can be selected by using these buttons to scan the available stations or channels in either direction.

● **PHONO**
**PHONO ( [▶] ):** Press this button to switch the source to "PHONO" and to start playing a record.
**STOP ( [■] ):** Press this button to stop playing the record

**Note:**
- **When the [▶] or [■] button is pressed, the corresponding symbol is shown in the display.**

● **CD**
**CD ( [▶] ):** Press this button to switch the source to "CD" and to start playing a compact disc.
**STOP ( [■] ):** Press this button to stop playing the compact disc.
**AUTO SEARCH:**
**( [⏮] ):** Press this button to move the pickup back to the beginning of the current tune. Each time the button is pressed, the pickup will skip to the beginning of the previous tune. Keeping this button pressed causes the pickup to skip back continuously.
**( [⏭] ):** Press this button to move the pickup to the beginning of the next tune. Each time this button is pressed, the pickup moves forward by one tune. Keeping this button pressed causes the pickup to skip forward continuously.
**10 KEY:** Press this button to use the ● 10-KEY buttons to select the CD track No.

**Note:**
- **When the [▶] , [■] , [⏮] or [⏭] button is pressed, the corresponding symbol is shown in the display.**

● **TAPE 1**
**TAPE 1 ( [▶] ):** Press this button to switch the source to "TAPE 1" and to start playing a tape in the TAPE 1 cassette deck.
**STOP ( [■] ):** Press this button to stop the cassette deck.
**MUSIC SCAN:**
**( [⏮] ):** Press this button to select the tune by fast-winding the tape from right to left.
**( [⏭] ):** Press this button to select the tune by fast-winding the tape from left to right.
**DIRECTION ( [◀▶] ):** Press this button to change the direction of tape travel.

**Note:**
- **When the [▶] , [■] , [⏮] or [⏭] button is pressed, the corresponding symbol is shown in the display.**

● **SURROUND**
For the surround sound effect, first press ● SURROUND ON/OFF button to activate surround sound circuit, then use these buttons.
**([DELAY]):** Each time this button is pressed, the delay time setting is changed in the order ↱1 → 2 → 3↰.
**([MODE]):** Each time this button is pressed, the surround mode is changed in the order ↱DOLBY SURROUND → HALL → STADIUM↰.
The display shows ↱"DOLBY" → "HALL" → "STDUM"↰ in order.
**REAR LEVEL ( [−] , [+] ):** Adjust the relative volume of the rear speakers with these buttons. Press the [+] button to increase the volume, and press the [−] button decrease it.

**Note:**
- **Setting using these buttons will be shown in the display, in the same way as when operating the front panel controls. For details, refer to the description of the front panel.**

● **TAPE 2**
Press this button to listen to the source connected to the TAPE 2 terminals, and press it again to disengage the source.

**Note:**
- **The operating indications "ON" or "OFF" will be shown in the display.**

● **DAT**
**DAT ( [▶] ):** Press this button to start a digital audio tape.
**STOP ( [■] ):** Press this button to stop a digital audio tape.
**AUTO SERACH:**
**( [⏮] ):** Press this button to select the beginning of the corrent tune.
**( [⏭] ):** Press this button to select the beginning of the next tune.
**10-KEY:** Press this button to use the ● 10-KEY buttons to select a DAT track.

**Notes:**
- **Connect a DAT deck to the TAPE 2 terminals of the receiver.**
- **When operating the DAT deck, press ● TAPE 2 button first, then press ● DAT operation buttons, or CONTROL DAT buttons ( ● , ● ).**
- **When the [▶] , [■] , [⏮] or [⏭] button is pressed, the corresponding symbol is shown in the display.**
- **The [⏮] and [⏭] buttons of this unit have the same function as the [⏮] and [⏭] buttons on the DAT deck.**

● **CONTROL**
**VCR:** Press this button to operate the VCR connected to the VCR 1 or 2 terminals.
**TAPE 1:** Press this button to operate the cassette deck connected to the TAPE 1 terminals.
**DAT:** Press this button to operate the digital audio tape deck connected to the TAPE 2 terminals.

● **TAPE 1/VCR/DAT CONTROL**
**PAUSE/STILL ( [⏸] ):** Press this button to pause during playback or recording. To release, press the PLAY button.
**STOP ( [■] ):** Press this button to stop operation.
**REC ( [●] ):** Press the PLAY button while pressing this button to start recording.
When TAPE 1 or DAT is selected, the "DAT/TAPE REC" indicator lights for about 5 seconds.
**( [⏪] ):** For a cassette deck or DAT deck: Press this button to quickly wind the tape from right to left.
For a VCR: Press this button to set from the stop mode to the rewind mode. During playback, press this button for high-speed playback in the reverse direction (Shuttle search).
**PLAY ( [▶] ):** Press this button to play a tape.
**( [⏩] ):** For a cassette deck or DAT deck: Press this button to quickly wind the tape from left to right.
For a VCR: Press this button to transfer from the stop mode to the fast-forward mode. During playback, press this button for high-speed playback in the forward direction (Shuttle search).

**Note:**
- **The symbols corresponding to the buttons [⏸] , [■] , [⏪] and [⏩] will be shown in the display. They are not shown in the case of a VCR.**

● **MUTE**
Press this button to instantly mute the sound. To return the volume to its original level, press this button again, or press the BALANCE or VOLUME button.

**Note:**
- **The operating indications of VOL "+" or VOL "−" and "MUTE", "OFF" will be shown in the display.**

● **VOLUME ( [−] , [+] )**
Press the [+] button to increase the volume and the [−] button to decrease it.

## Batteries

- **How to install batteries (Fig. 18/19)**

1. Slide the cover of the battery case in the direction of the arrow to remove it.
2. Install the batteries with the correct polarity.
   (It is recommended that the batteries with a longer service life are used for the RM-SR777.)
   The following batteries are required for the remote control unit.
   * RM-SR777 (provided with the RX-777VBK): "AAA" x 4
   * RM-SR777S (provided with the RX-777VSBK): "AA" x 2
3. Re-install the cover of the battery case.

- **How to use the batteries**

Improper use of the batteries can cause leakage or damage. So, take the following precautions:

1. Install batteries with their polarities properly placed.
2. Do not mix new and used batteries.
3. Use the same brand and type of batteries because otherwise the voltages may differ sightly.
4. If the remote control unit will not be used for a long time remove the batteries.
   Also, follow the instructions on the batteries.

- **When to replace batteries**

When the distance from which you can use the remote control unit becomes shorter, replace both batteries.

**Notes:**

- **If the remote control is used too near the receiver during AM reception, it may cause interference.**
- **The remote control can normally be used up to about 8 m (26 ft) from the receiver.**
- **When replacing the batteries for the RM-SR777, do it in less than 3 minutes or the contents of memory will be lost.**

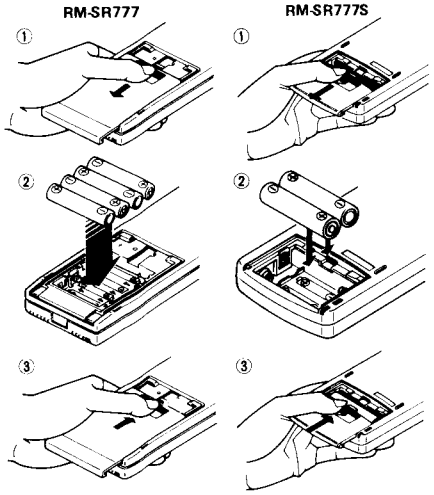



Fig. 18 Fig. 19

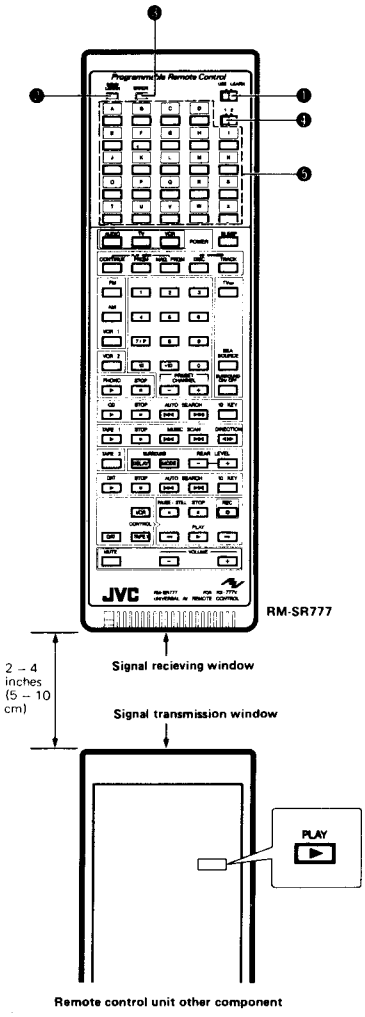



Fig. 20

## How to program key functions (RM-SR777)

The functions of remote control units from other manufacturers can be memorized (programmed) by the RM-SR777. Learning buttons ❻ "A" to "X" can be programmed with up to 24 key functions, with the mode select switch ❹ set to 1 and 2, for a total of 48 key functions.

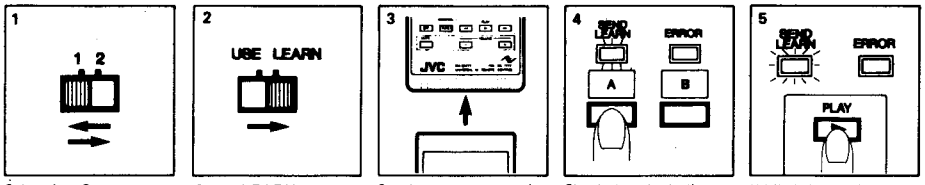
Example: For button ❻ "A", Mode 1, to memorize the "PLAY" control function of a remote control unit.

1. Select Mode 1 with ❹ Mode select switch.
2. Set the ❶ USE/LEARN switch to the LEARN position.
3. Put the two remote controls on a table with the transmission window of the remote control the functions of which are to be learned against the signal receiving window at the rear of the RM-SR777. Leave a distance of about 2 – 4 inches (5 – 10 cm) between them.
4. Press button "A" of the RM-SR777 and release it. The SEND/LEARN indicator will blink.
   (If ❸ ERROR indicator lights at the same time, a function has already been memorized in ❻ "A". At this time, if the button is depressed continuously, the previously memorized function will be erased and it will be ready to memorize the new function. If the previous function is still required, select another button, ❺ "B" to "X".)
5. While the SEND/LEARN indicator is blinking (for about 10 seconds), press the button of the other remote control unit the function of which is to be memorized ("PLAY" in this case).
   When memorizing a setting, both the ERROR and SEND/LEARN indicators light. If the ERROR indicator goes out and only the SEND/LEARN indicator remains lit, it shows that the memorizing operation has been completed.
   Keep pressing the button of the other remote control unit while the ERROR indicator is lit.
   At this time, if the SEND/LEARN indicator does not blink and only the ERROR indicator lights, the operation has not been completed. After the indicator goes out, retry the operation from step 4.
6. To memorize other functions into other learning buttons of the RM-SR777, repeat steps 4 and 5 after the SEND/LEARN indicator has gone out.
7. To operate these buttons after the memorizing operation is complete, set the ❶ USE/LEARN switch to the USE position. Also, when functions have been memorized in both Modes 1 and 2, first set ❹ mode select switch to the required mode, then press the desired button.

**Notes:**

- **In step 4, if the ERROR indicator lights when one of the learning buttons is pressed, it shows that the incorrect button has been pressed. Select another button.**
- **In step 5, be sure to perform the memorizing operation while the SEND/LEARN indicator is blinking (for about 10 seconds).**
  **After the indicator goes out, the memorizing operation is impossible. In such a case, repeat operations from step 4.**
- **With certain remote control units, functions may not be memorized correctly by the RM-SR777.**

**How to memorize**




Select 1 or 2.

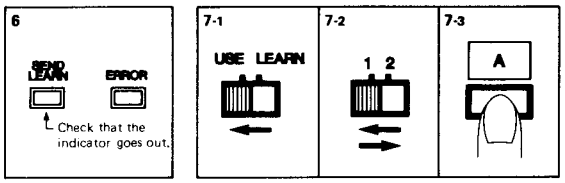
Set to LEARN.

Set the remote control unit facing toward the RM-SR777. (Refer to Fig. 20)

Check that the indicator is blinking.

While it is blinking, press the required button. When the SEND/LEARN indicator lights continuously, the operation is complete.

**How to operate**




To memorize other functions, repeat steps 4 and 5. (After checking that the indicator has gone out.)

Set to USE.

Select 1 or 2.

Press the required button.

**CAUTION:**
If two or more of ❺ the learning buttons in which the functions have already been programmed are pressed simultaneously, there will be no operation.
Example: After programming the REC key function into ❺ "A", and the PLAY key function into ❺ "B", if buttons "A" and "B" are pressed simultaneously, recording will not start.
When programming a function requiring two buttons to be pressed at the same time, such as REC + PLAY, or REC + PAUSE, press the two buttons simultaneously in Step 5 to store the two functions in one of the ❺ learning buttons.
- When programming two or more functions into one button, pay special attention during the operation in Step 7-3. If PLAY functions are programmed, the contents of the recorded tape will be erased when the button is pressed.

**Indicator lighting**

: Blinks : Lights continuously : Does not light

| Button on RM-SR777 | Button on other remote control | SEND/LEARN indicator | ERROR indicator | Status |
|---|---|---|---|---|
| Step 4 A ❺ | — | | | Button in which no function has been memorized |
| Step 4 A ❺ | — | | | Button in which a function has been memorized |
| — | Step 5 PLAY | | | While memorizing a setting |
| | | | | Memorizing complete |
| | | | | Memorizing incomplete |
| FM | — | | | Incorrect button is pressed |

**How to use the function seals and template (Fig. 21)**
The function identification seals and the template are provided for use with the RM-SR777.
Use them referring to Fig. 21, as requied.

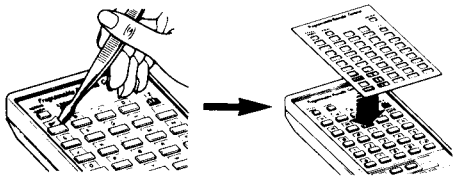


Fig. 21

# OPERATION WITH THE REMOTE CONTROL UNIT (RM-SR777/RM-SR777S)

Refer to page 23 for the diagrams.

- A "COMPU LINK" component (such as an amplifier, receiver, tuner, CD player, cassette deck, turntable or DAT deck) has one or two COMPU LINK-1/SYNCHRO jacks on its rear panel.
- The RM-SR777/RM-SR777S Remote Control Unit can be used to operate any "COMPU LINK" components connected to the receiver, without you having to press any front panel buttons.
- For example, when the CD player "PLAY" button on the remote control unit is pressed, the CD player starts playing automatically while the previous program source component stops automatically.
- Point the RM-SR777/RM-SR777S at the REMOTE SENSOR window of the receiver (RX-777VBK/RX-777VSBK) when using it.
  If the signal from the RM-SR777/RM-SR777S requires two or more components to operate simultaneously, the operation may be slightly delayed.
  If this happens, keep the button depressed until the required components begin operation.
  Certain other components receive signals directly from the remote control; if these are too far from the receiver, it may be difficult for them to detect signals from the RM-SR777/RM-SR777S.
  In this case, point the RM-SR777/RM-SR777S at the remote sensors of these components, and press the button again.
- Since the RM-SR777/RM-SR777S does not have buttons for the programming of preset stations or CD tracks, programming the tuner or CD player, etc. must be performed using the receiver or CD player's front panel buttons.

**To listen to an FM or AM broadcast (Fig. 24)**

1. ● FM or ● AM: Pressing this button (FM or AM) sets the ● 10-KEY buttons ( 1 – 10 , +10 ) to the FM or AM mode.
2. ● 10-KEY ( 1 – 10 , +10 ): For preset channels that the tuner is programmed to receive, check the number of the required channel, and press the button corresponding to that channel.
   For operation of the 10 KEY-buttons, refer to the item ● 10-KEY in the "Remote Control Unit" section.
3. ● PRESET CHANNEL ( ⊟ , ⊞ ): These buttons are to access adjacent channels below and above the current channel.

**To watch and listen to a VCR (Fig. 25)**

- Press the POWER button of the VCR to ON.
- Point the top (transmission window) of the RM-SR777/RM-SR777S at the VCR's remote sensor.

1. Press the ● VCR 1 or ● VCR 2 button.

   **Note:**
   - **The 10-KEY and PRESET CHANNEL ⊟ , ⊞ buttons are set to the VCR mode automatically.**

2. 10-KEY ( 1 – 9 , 0 ) (When you select VCR with the remote control):
   Press the required button to select the VCR channel.
   For operation of the 10-KEY buttons, refer to the item ● 10-KEY in the "Remote Control Unit" section.
3. ● PRESET CHANNEL ( ⊟ , ⊞ ): To move to a lower or higher channel. Each time you press the button, the channel below or above the current channel is selected.

**To watch and listen to TV (Fig. 25)**

Turn the power of the required component ON.

1. ● TVCH: When this button is pressed, the TV mode is engaged.

   **Note:**
   - **The 10-KEY and PRESET CHANNEL ⊟ , ⊞ buttons are automatically set to the TV mode.**

2. ● 10-KEY ( 1 – 9 , 0 ) (When you select TV with the remote control):
   Press the button corresponding to the required TV channel.
   For operation of the 10-KEY buttons, refer to the item ● 10-KEY in the "Remote Control Unit" section.
3. ● PRESET CHANNEL ( ⊟ , ⊞ ): To tune to a lower or higher channel. Each time you press the button, the channel below or above the current channel will be received.

   **Note:**
   - **When listening to TV sound via the RX-777VBK/VSBK, connect the audio output jacks of the TV to any unused AUDIO terminals, and select the source corresponding to the terminals used for TV sound.**

**To play turntable or cassette deck (Fig. 26)**

1. ● PHONO ▶ or ● TAPE 1 ▶ : Pressing the button switches the source selector automatically to "PHONO" or "TAPE 1", depending on the button you press, and playback starts.
2. ● STOP ■ or ● STOP ■ : Pressing this button stops the turntable or cassette deck.
3. ● MUSIC SCAN ⏮ : Press this button to perform music scanning with the tape running to the left.
   ● MUSIC SCAN ⏭ : Press this button to perform music scanning with the tape running to the right.
   - Each time these are pressed, the next tune is accessed; when they are kept pressed, the tape is fast-wound in the direction indicated.
4. ● DIRECTION ◀▶ : Press this button to change the direction in which the tape is running.

**To play CD or DAT (Fig. 27)**

● CD ▶ or ● DAT ▶ : To select a track of a CD or a tune of a DAT using its number, press this button first and then press the ● 10-KEY ( 1 – 10 , +10 , 0 ) buttons to input the required number.

1. ● CD ▶ or ● DAT ▶ : Pressing this button starts playback.

   **Note:**
   - **To listen to music with a DAT deck connected to the TAPE 2 terminals, press ● TAPE 2 button first and press ● DAT ▶ button.**

2. ● STOP ■ or ● STOP ■ : Press this button to stop playing.
3. AUTO SEARCH ⏮ ( ● or ● ): Pressing this button interrupts the selection being played and returns to the start of that selection.
   AUTO SEARCH ⏭ ( ● or ● ): Pressing this button interrupts the music and moves to the start of the next selection.

   **Note:**
   - **Press once to advance to the next selection. To fast forward, keep this button depressed.**

**CD AUTO CHANGER operation (Fig. 28)**

1. **● PLAY MODE**
   CONTINUE: Pressing this button plays the discs in the magazine sequentially, starting with Disc 1, regardless of the program.
   PRGM: Press this button to play the discs in the programmed order.
   MAG. PRGM: Set a magazine in place and press this button; the discs will be played back in the sequence programmed for the magazine.
   If the MAG.PRGM function does not operate with your CD auto changer, consult the instruction book of the CD auto changer.
2. **● CD CHANGER**
   Pressing the DISC or TRACK button assigns the ● 10-KEY buttons for use in operating the CD changer.
   (For operation of the 10-KEY buttons, refer to item ● 10 KEY in the "Remote Control Unit" section.)
   DISC + 10 KEY ( 1 – 7·P ): Press this button to specify a disc by its number in the magazine. In the case, press the DISC button before operating the 10-KEY buttons.
   TRACK + 10 KEY ( 1 – 10 , +10 ): Press this key to specify a track by its number in the magazine' in the case, press the TRACK button before operating the 10-KEY buttons.

   **Note:**
   - **For details, consult the instruction book of the CD auto changer.**

**How to use the CONTROL buttons ( ● and ● ) (Fig. 29)**

When operating the TAPE 1 cassette deck, DAT deck or VCR, each component can be controlled separately in a following way.

1. Press the required source button ( TAPE1 , DAT or VCR ) among ● CONTROL buttons.
2. After pressing one of ● CONTROL buttons, operate the deck using ● TAPE 1/VCR/DAT CONTROL buttons as follows:
   - PLAY ( ▶ ): Press this button to play a tape. When the PLAY button of the TAPE 1, VCR or DAT is pressed, the source component selected previously will not stop. To stop it, press the corresponding STOP button.
   - ◀◀ or ▶▶ : Press these buttons to rewind/fast-forward tape; when fully wound, the auto play or auto rewind functions of the TAPE 1, VCR or DAT will be activated.
   - REC ( ● ): Press the PLAY button while pressing this button to start recording.
   - PAUSE/STILL ( ▮▮ ): Press this button to pause during playback or recording. To release this function, press the PLAY button.
   - STOP ( ■ ): Press this button to stop operation.

**Note:**
- **When JVC VCRs are connected to VCR 1 and VCR 2, they will be controlled at the same time by the VCR control buttons. Be especially careful when recording.**

**How to operate synchronized recording**
1. Press ● CONTROL [TAPE1] button.
2. Using ● TAPE 1/VCR/DAT CONTROL buttons, set the tape deck to the record-pause mode.

   **Note:**
   - **When setting the deck to the REC/PAUSE mode, press ● REC [⊙] and ● PAUSE/STILL [II] buttons simultaneously. If ● PLAY [▶] button is used, synchronized recording is impossible.**
3. Press ● PHONO ([▶]) or ● CD ([▶]) button corresponding to the source required to be recorded, to start recording on the tape deck automatically.

**How to play surround sound (Fig. 30)**
1. ● SURROUND ON/OFF: Press this button to activate the surround sound function.
2. ● SURROUND:
   [MODE] : Press this button to select the desired surround mode (from DOLBY SURROUND, HALL and STADIUM).
   [DELAY] : Press this button to select the appropriate delay time setting (from 1 to 3).
3. ● REAR LEVEL ([−], [+]): Using these buttons, set the volume of the rear speakers (relative to the front speaker volume).

**Note:**
- **For more details of the function of each button, refer to the description in the "Remote Control Unit" section.**

**CAUTIONS:**
- **When playing a DAT deck, connect it to the TAPE 2 terminals. (Also connect the remote cable between the DAT deck and this unit.)**
  **To start, press the TAPE 2 button then press the DAT CONTROL button.**
- **Even if the source is changed from the DAT deck to other equipment while the DAT deck is playing, the DAT deck will not stop operation. The opposite is also the case; when the source is changed from other equipment to the DAT deck, the other equipment will not stop operation.**
- **In order to assure proper operation, the buttons of the RM-SR777/RM-SR777S should be firmly pressed and its corresponding response confirmed.**

COMPU LINK
Remote
Control System

## COMPU LINK REMOTE CONTROL SYSTEM

**"COMPU LINK"** Remote Control System is a system which has been originated and developed by JVC (Victor Company of Japan, Limited). The remote control units provided with your **COMPU LINK** remote control components employ this system. By operating the remote control unit in your hand, you can not only control each component of your **COMPU LINK** component but also enjoy such complicating performances as automatic source selection and synchronized recording without any difficulty. Please operate the JVC remote control unit yourself, and you will find how excellent this system is. The following are the brief explanations of its major performances.

### 1. Remote controlling of each component (Fig. 31)
- Functions corresponding to the following buttons can be generated by the remote control unit:

| | |
|---|---|
| Cassette deck: | PLAY, STOP, MUSIC SCAN, FAST FORWARD, REWIND, PAUSE and RECORD |
| CD player: | PLAY, STOP, AUTO SEARCH, and TRACK NO. SELECT |
| CD auto changer: | PLAY MODE (CONTINUE, PROGRAM, MAGAZINE PROGRAM) and DISC NO. SELECT |
| Turntable: | START and STOP |
| Tuning control: | PRESET CHANNEL NO. SELECT |

### 2. Automatic-source selection (Fig. 32)
If the attached remote cable is used to connect this unit to other JVC components with COMPU LINK-1/SYNCHRO terminals, sources can be switched with just one touch of this unit's source selector buttons and the corresponding component will start to play automatically. The source select button of the remote control unit or the corresponding component's PLAY button can also be used.
When switching from one component to another, such as a cassette deck, turntable or CD player, the previous component will stop playing after about five seconds.

### 3. Synchronized recording (Fig. 33)
Synchronized recording refers to the process whereby the cassette deck automatically starts recording in synchronization with the CD player or turntable.
Set the cassette deck to the REC/PAUSE mode following the procedure in its instruction manual. For synchronized recording from a CD player, push the PLAY button of the CD player. The cassette deck enters the record mode the moment the CD player starts and synchronized recording commences. Synchronized recording stops automatically when the CD player stops playing.
To cancel synchronized recording, push the STOP button of the CD player, turntable or cassette deck.

**Notes:**
- **When the REC/PAUSE mode is set by pushing PAUSE after depressing the REC and PLAY buttons simultaneously, synchronized recording is not possible. For details, refer to your cassette deck's instruction manual.**
- **You can program the order of recording tracks you wish to hear. For details, refer to the instruction book of the CD player.**
- **During synchronized recording, the blank gaps of about 4 seconds are automatically made between tunes. By utilizing these gaps, the music scanning is made possible.**
- **Abnormal operation will result if the power supply of any of the components is interrupted during synchronized recording. If this happens, push the component's PLAY button again to restart.**
- **Check that the COMPU LINK-1/SYNCHRO terminal of each component is connected with the remote cable provided. Be sure to read the instruction manual of each component carefully.**
- **Do not connect the remote cable when the cassette deck is connected to the TAPE 2 terminals.**
- **The source is locked to the CD or PHONO position during synchronized recording to avoid stopping or changing to another source accidentally. To change the source, you must first cancel synchronized recording.**
- **When performing synchronised recording from CD or PHONO to a DAT deck, the source selector will not be locked.**

## TROUBLESHOOTING

**What appears to be a malfunction may not always be serious. Make sure first . . .**

**No sound and no illumination**
Is the AC plug connected properly?

**No sound from speakers**
Are the speaker cords connected?
Are the SPEAKERS buttons pressed?

**Sound from one speaker only**
Are the speaker cords connected correctly? Is the BALANCE control set to one extreme or the other?

**Continuous hiss or buzzing during FM reception**
The incoming signal may be too weak.
Use the correct antenna.

**Occasional crackling noise during FM reception.**
This may be automobile ignition noise. Move antenna as far away from the road as possible.

**Loud hum during record playing**
Is the turntable grounded?
Try to change the cord path.

**Howling during record playing**
Is the turntable too close to a speaker?

# Removal Procedures

## ■ Removing the Top Cover

1. Remove the four screws on both sides.
2. Remove the two screws located on the top of the rear panel.
3. Slightly open both sides of the top cover, to the left and right, and raise the rear panel. Then slowly lift it up and straight forward.

## ■ Removing the Front Panel

1. Remove the top cover.
2. Remove three plastic rivets on the upper part of the front panel and three screws from the lower part.
3. Remove the front panel.

## ■ Removing the SEA PCB (Fig. 1)

1. Remove the front panel.
2. Pull out seven SEA knobs.
3. Remove five screws Ⓐ securing the SEA PCB.

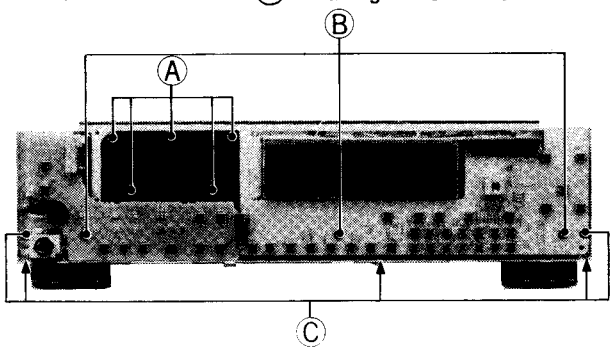



Fig. 1

## ■ Removing the Front Switch PCB

1. Remove the front panel.
2. Pull off three plastic rivets Ⓑ fixing the front switch PCB.
3. Lift up the front switch PCB and pull it off toward you from the connectors. (See Fig. 2.)

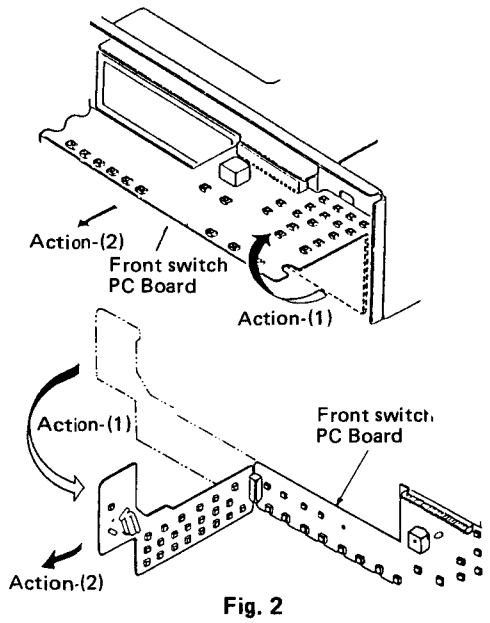



Fig. 2

## ■ Removing the LCD PCB (Fig. 1, 3)

1. Remove the front switch PCB.
2. Remove five screws Ⓒ securing the front bracket.
3. Remove two plastic rivets Ⓓ, and draw out the front bracket in little.
4. Remove four plastic rivets Ⓔ securing the LCD PCB.

## ■ Removing the Power Transistors

1. Remove the top cover.
2. Demount the bottom cover by removing 13 screws from the bottom.
3. Unsolder the power transistors.
4. Remove the screws holding the power transistors using a wrench having a diagonal length of 5.5 mm.

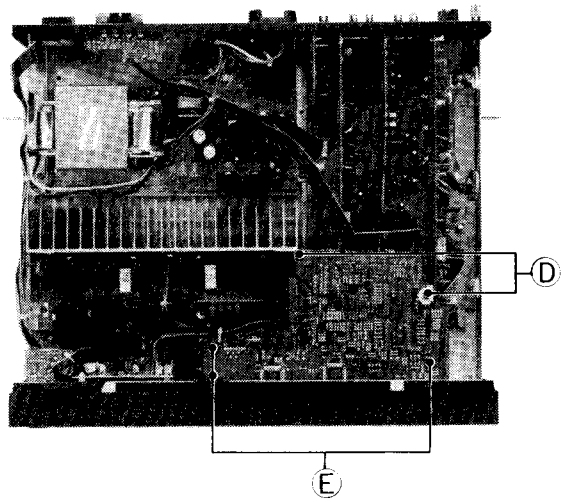
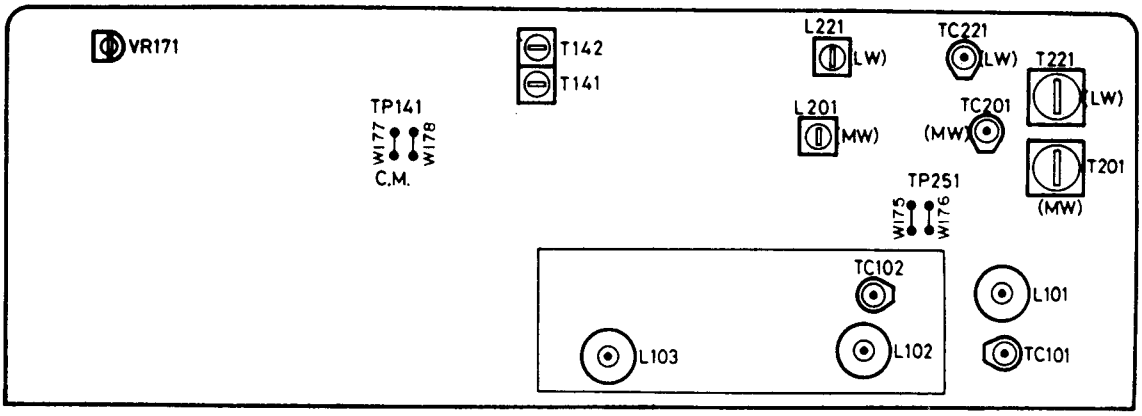



Fig. 3

# FM/MW/LW Tuner Alignment Procedures




## ■ Front-end Section

**FM oscillator coil: L103**

1. Set the frequency display to "108.0 MHz" and the FM MODE switch to the "MONO" position.
2. Confirm the FM inter-station noise is received.
3. Adjust L103 so that the voltage of test point "TP251" becomes 8.3 V ± 0.1 V.
4. Set the frequency display to "87.5 MHz" and confirm that the output of test point "TP251" is 1.5~2.2 V.

**FM antenna coil: L101, L102**

5. Adjust L101 and L102 to obtain the maximum sensitivity at 89.9 MHz.

**FM antenna trimmer: TC101, TC102**

6. Adjust TC101 and TC102 to obtain the maximum sensitivity at 105.9 MHz.
7. Repeat the above adjustments of L101, L102, TC101 and TC102.

**Note:** After adjustment, confirm that the Band Cover is in the following range (for West Germany only).
Lower edge : 87.5 MHz (+0 Hz, −300 kHz)
Higher edge: 108.0 MHz (+500 Hz, −0 kHz)

## ■ IF Detection and MPX

**FM detector coil: T131, T132**

1. Connect a center-meter or a digital voltmeter to test point "TP141 (W177-W178)", and receive to 100.1 MHz signal in the condition of SSG ATT 70 dB.
2. Adjust T141 so that the center-meter indicates "0" or the digital voltmeter reads 0 ± 1.5 mV.
3. At the same time, adjust T142 so that the distortion is minimized.

**Stereo Separation: VR171 (for Continental Europe, U.K. and Australia)**

4. Tune in a 98.1 MHz stereo signal.
5. Adjust VR171 so that the channel separation becomes maximum.

## ■ LW Section

**LW oscillator coil: L221**

1. Set the frequency display to 144 kHz.
2. Adjust L221 to obtain 1.0 ± 0.1 V at test point "TP251".
3. Set the frequency display to 353 kHz and confirm that the voltage at test point "TP251" is 7.2 V ± 1.2 V.

**LW antenna coil: T221**

4. Connect a loop antenna to the "AM LOOP" terminal on the rear panel.
5. Adjust T221 to obtain the best receiving sensitivity on 164 kHz.

**LW antenna trimmer: TC221**

6. Adjust TC221 to obtain the best receiving sensitivity on 353 kHz.
7. Repeat the above adjustments of T221, TC221.

**Note:** After this alignment, confirm the MW section alignment.

## ■ MW Section

**Note:** ( ); 9 kHz step, [ ]; 10 kHz step

**MW oscillator coil: L201**

1. Set the frequency display, adjust L201 to obtain 522 kHz and confirm that the output of test point "TP251" is 1.1 V ± 0.1 V.
2. Set the frequency display to 1629 kHz and confirm that the output of test point "TP251" is 7.5 V ± 0.8 V.

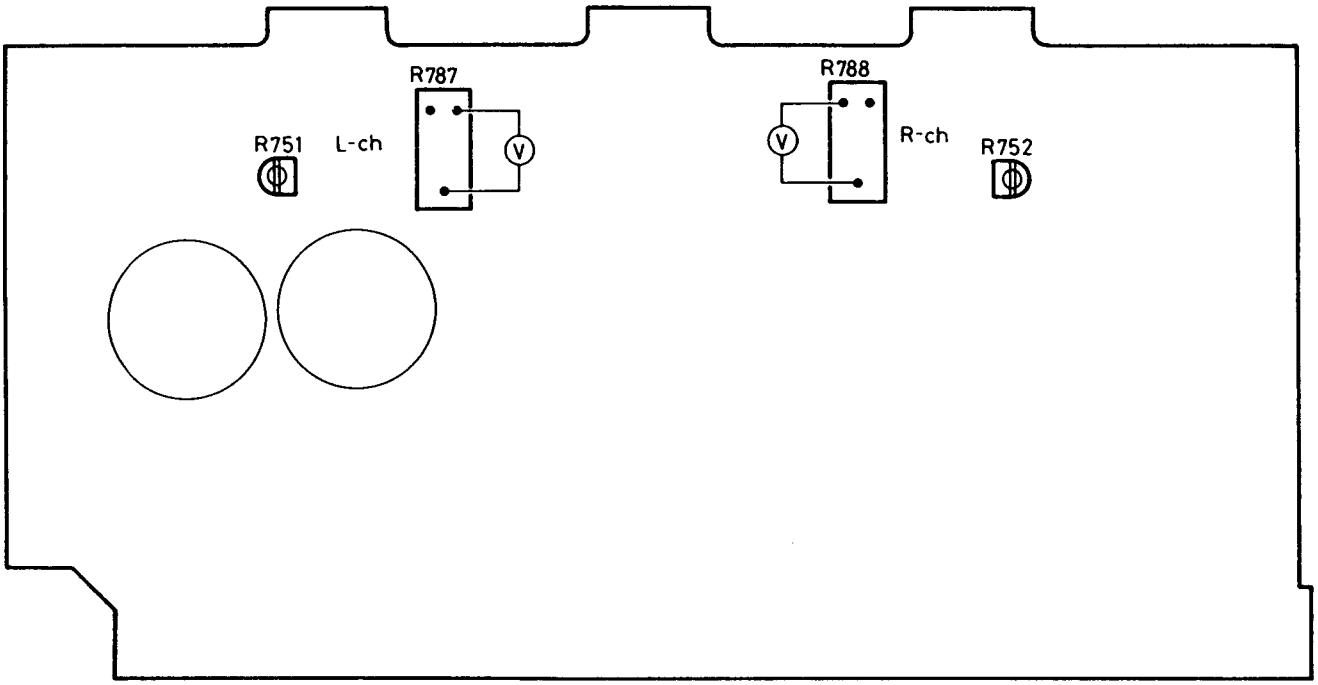
**MW antenna coil: T201**

3. Connect a loop antenna to the "AM LOOP" terminal on the rear panel.
4. Adjust T201 to obtain the best receiving sensitivity on 603 kHz.

**MW antenna trimmer: TC201**

5. Adjust TC201 to obtain the best receiving sensitivity on 1404 kHz.

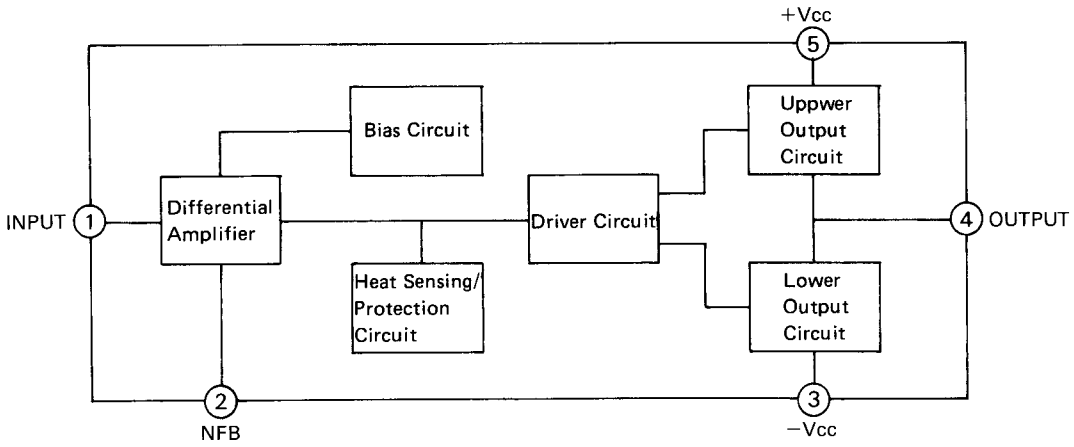
# Power Amplifier Idling Current Adjustment



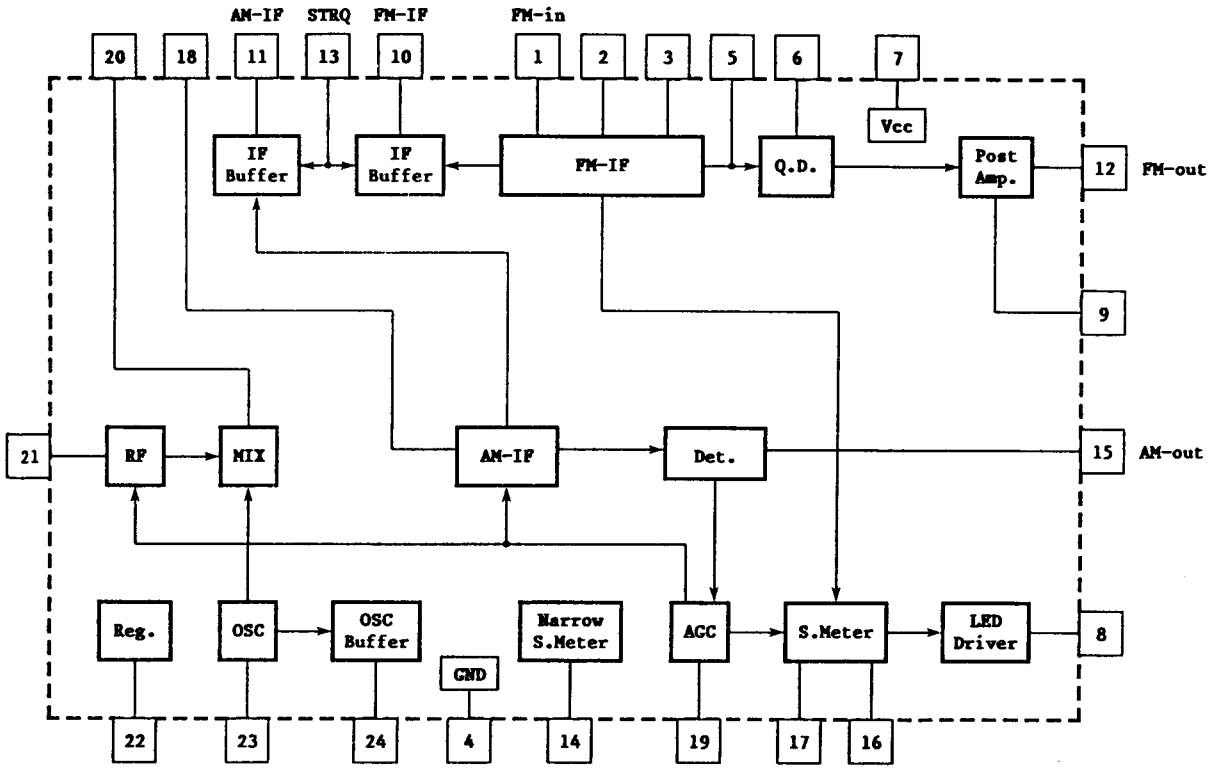

1. Turn R751 and R752 fully counterclockwise before the power switch "ON".
2. Allow the set warm up at least 5 minutes before adjustment.
3. Must keep the heat-sink to prevent overheating before adjustment.
4. Set the volume control to minimum during this adjustment.
5. Connect a digital voltmeter to R787 resistor's leads for left channel, or to R788's leads for right channel.
6. Adjust R751 for left channel, or R752 for right channel, so that the digital voltmeter reads 3~5 mV.

# Internal Block Diagrams of ICs

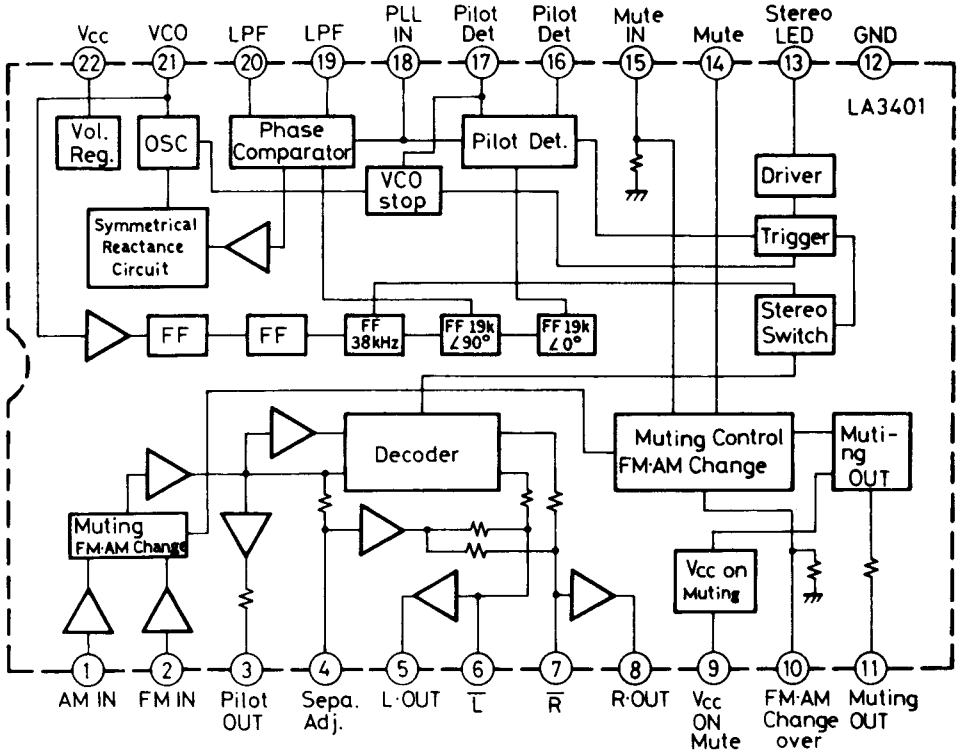
## ■ UPC1238V (IC011, IC012)




## ■ LA1266A (IC101)

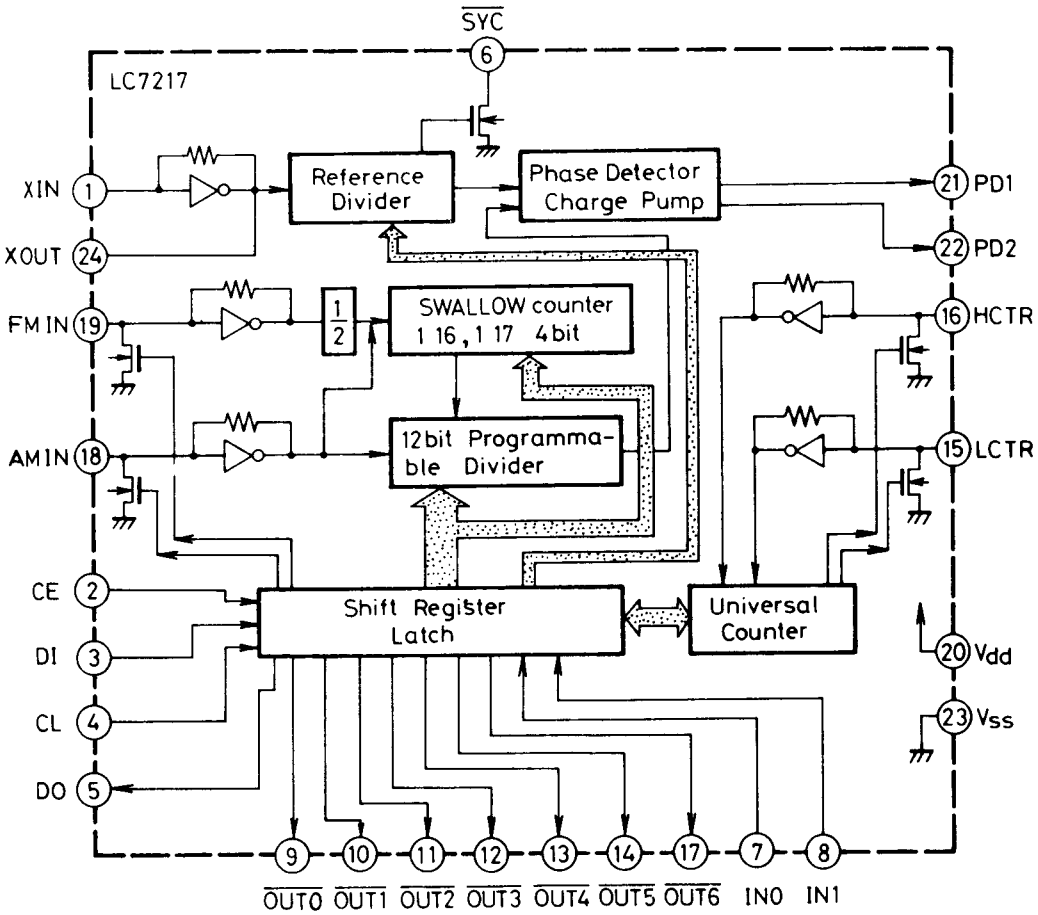


## ■ LA3401 (IC171)




## ■ LC7217 (IC251): PLL Synthesizer

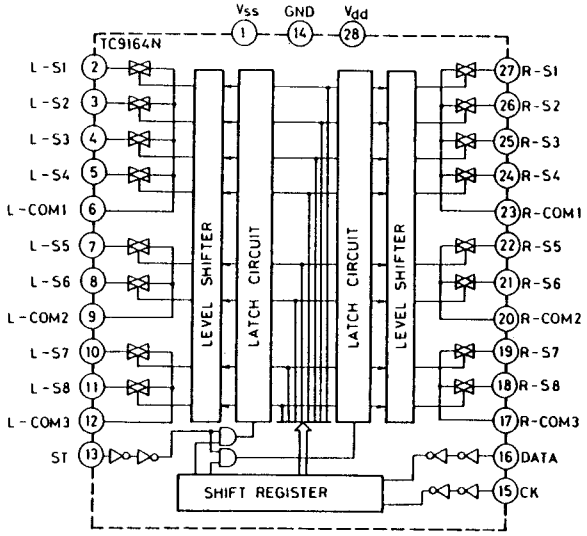
### (1) Internal Block Diagram



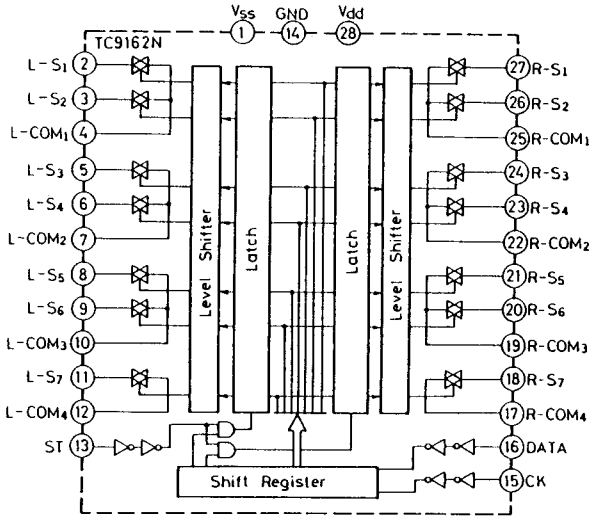
### (2) Pin Functions

| Symbol | Pin No. | Details | Function | I/O |
|---|---|---|---|---|
| XIN<br>XOUT | 1<br>24 | X'tal OSC | • Crystal oscillator (7.2 MHz) | I<br>O |
| FM IN | 19 | Local oscillator signal input | • FM IN is selected for serial data input: DV = 1 is assigned.<br>• Input frequency is 10～130 MHz (125 mVrms min.).<br>• The signal passes through the built-in pre-scaler (1/2) and is transmitted to the swallow counter. | I |
| AM IN | 18 | Local oscillator signal input | • AM IN is selected for serial data input: DV = 0 is assigned.<br>• When serial data is input: SP = 1 is assigned:<br>  • Input frequency is 2～40 MHz (125 mVrms min.).<br>  • The signal is transmitted to the swallow counter without passing through the built-in pre-scaler (1/2).<br>• When serial data is input: SP = 0 is assigned:<br>  • Input frequency is 0.5～10 MHz (125 mVrms min.).<br>  • The signal is transmitted directly to the 12-bit programmable divider. | I |
| PD1<br>PD2 | 21<br>22 | Charge pump output | • PLL charge pump output.<br>• When the local oscillator signal frequency divided by N results in a frequency higher than the reference frequency, high level signals are output from PD1 and PD2.<br>• When it is lower than the reference frequency, low level signals are output. | O |
| $\overline{SYC}$ | 6 | Controller clock | • This is the controller clock output pin and a 400 kHz signal (duty 66%) is output after the power is turned ON. | O<br>(N-ch open drain) |
| VDD | 20 | Power supply | • Power supply pin for LC7217.<br>It supplies 4.5～6.5 V when the PLL circuit is activated. | – |
| VSS | 23 | Ground | • GND pin of LC7217. | – |
| CE | 2 | Chip enable | • This pin goes high when serial data is input (DI) to LC7217 or output from it. | I |
| CL | 4 | Clock | • This clock is used to synchronize data when serial data is input (DI) to or output (DO) from LC7217. | I |
| DI | 3 | Input data | • Input pin for serial data which is transmitted from the controller to LC7217.<br>• A total of 36 bits of data should be input for initialization. | I |
| DO | 5 | Output data | • Output pin for serial data transmitted from LC7217 to the controller.<br>• A total of 24 bits can be output from the internal shift register in synchronized with CL. | O<br>(N-ch open drain) |
| $\overline{OUT\,0}$<br>$\overline{OUT\,1}$<br>$\overline{OUT\,2}$<br>$\overline{OUT\,3}$<br>$\overline{OUT\,4}$<br>$\overline{OUT\,5}$<br>$\overline{OUT\,6}$ | 9<br>10<br>11<br>12<br>13<br>14<br>17 | Output port | • Latches O0～O6 of the serial data transmitted from the controller, and inverts the data to output it in parallel.<br>• $\overline{OUT\,0}$ can output the time base for clock (8 Hz). (When TB = 1.)<br>• $\overline{OUT\,1}$ and $\overline{OUT\,2}$ are complementary outputs.<br>• $\overline{OUT\,0}$, $\overline{OUT\,3}$, $\overline{OUT\,4}$, $\overline{OUT\,5}$ and $\overline{OUT\,6}$ are N-ch open drain outputs (up to 13 V). | O |
| IN 0<br>IN 1 | 7<br>8 | Input port | • The data at input ports IN 0, IN 1 is converted from parallel to serial, and can be output from output pin DO. | I |
| HCTR | 16 | General purpose measurement signal input pin | • With serial data input: SC = 1, HCTR is selected.<br>• The signal is transmitted to the general-purpose counter (20-bit binary counter) via a 1/8 divider internally.<br>• For this, the value of the general-purpose counter becomes 1/8 of the actual frequency which is input to the HCTR pin.<br>• The measured results can be output from the MSB of the general-purpose counter via output pin DO. | I |
| LCTR | 15 | General purpose counter frequency input pin | • With serial data input: SC = 0, LCTR is selected.<br>• At this time, if serial data is input: SF = 1;<br>  • The signal is transmitted directly to the general-purpose counter without passing through the internal 1/8 divider.<br>• If serial data is input SF = 0:<br>  • Input frequency is 1 Hz～20 kHz ($V_{IH}$ = 0.7 $V_{DD}$ min., $V_{IL}$ = 0.3 $V_{DD}$ max.).<br>  • The measurement periods of 1-cycle and 2-cycle can be selected; when 2-cycle is selected, the input frequency is 2 Hz～20 kHz. (GT = 1/0 : 2/1 period) | I |

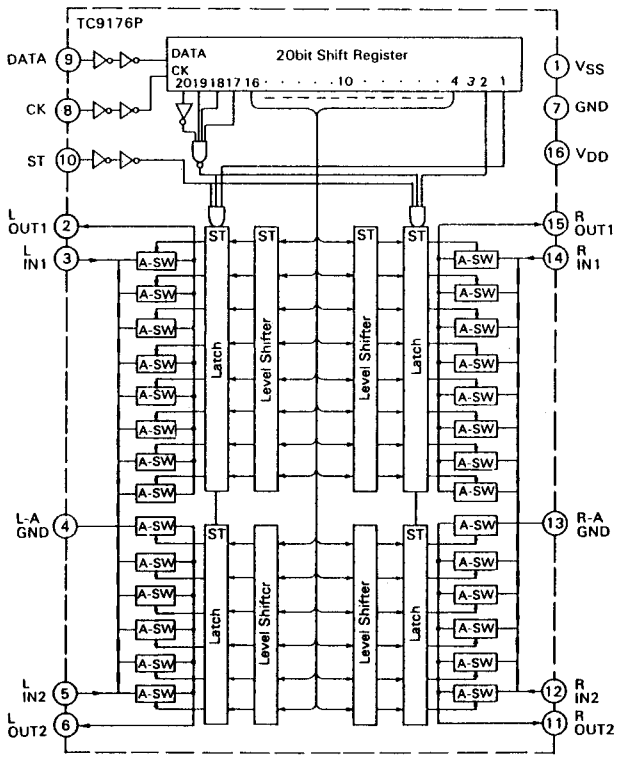
## ■ TC9164N (IC302)




## ■ TC9162N (IC391)

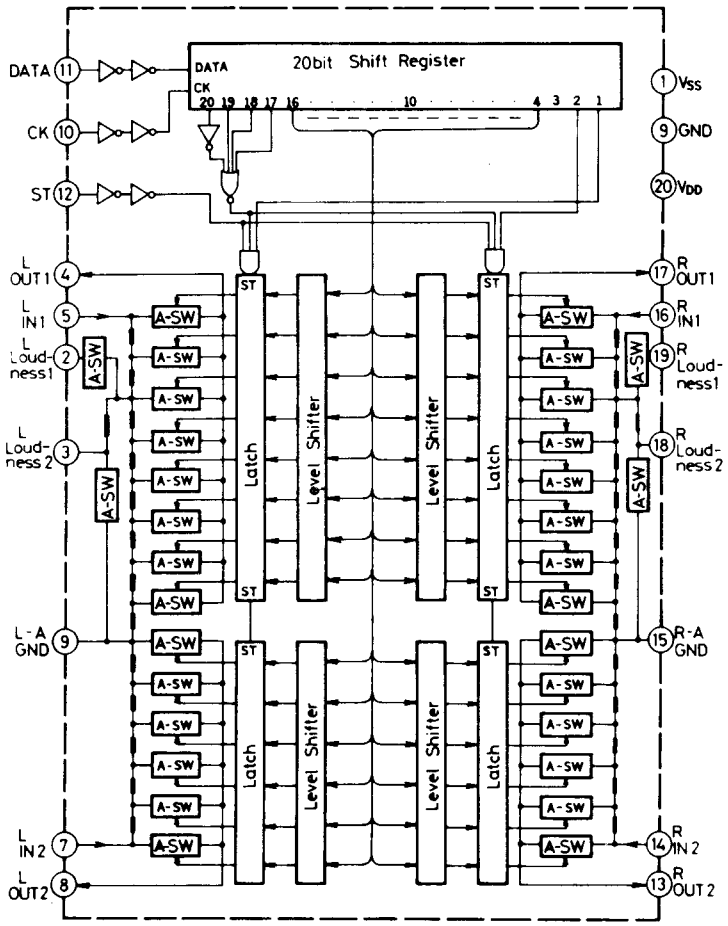



## ■ TC9176P (IC373)



## ■ TC9177P (IC371)

### (1) Block Diagram

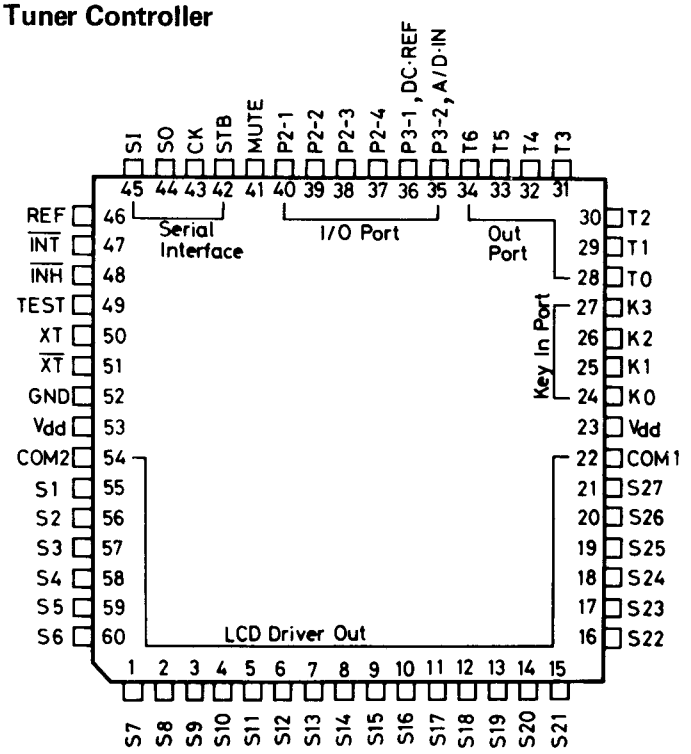



### (2) Pin Functions

| Pin No. | Symbol | Function |
|---|---|---|
| 1 | VSS | (—) Power Supply |
| 2 | L - Loudness 1 | Terminal for Loudness (L-ch) |
| 3 | L - Loudness 2 | Terminal for Loudness (L-ch) |
| 4 | L - OUT 1 | 10 dB Step Attenuator Output |
| 5 | L - IN 1 | 10 dB Attenuator Input |
| 6 | A - GND | Ground (Power Supply) |
| 7 | L - IN 2 | 2 dB Attenuator Input |
| 8 | L - OUT 2 | 2 dB Step Attenuator Output |
| 9 | GND | Ground (Signal) |
| 10 | CK | Clock Input |
| 11 | DATA | Data Input |
| 12 | ST | Strobe Input |
| 13 | R - OUT 2 | 2 dB Step Attenuator Output |
| 14 | R - IN 2 | 2 dB Attenuator Input |
| 15 | A - GND | Ground (Power Supply) |
| 16 | R - IN 1 | 10 dB Attenuator Input |
| 17 | R - OUT 1 | 10 dB Step Attenuator Output |
| 18 | R - Loudness 2 | Terminal for Loudness (R-ch) |
| 19 | R - Loudness 1 | Terminal for Loudness (R-ch) |
| 20 | VDD | (+) Power Supply |

## ■ TC9306F-028BS (IC421): Tuner Controller

### (1) External Diagram

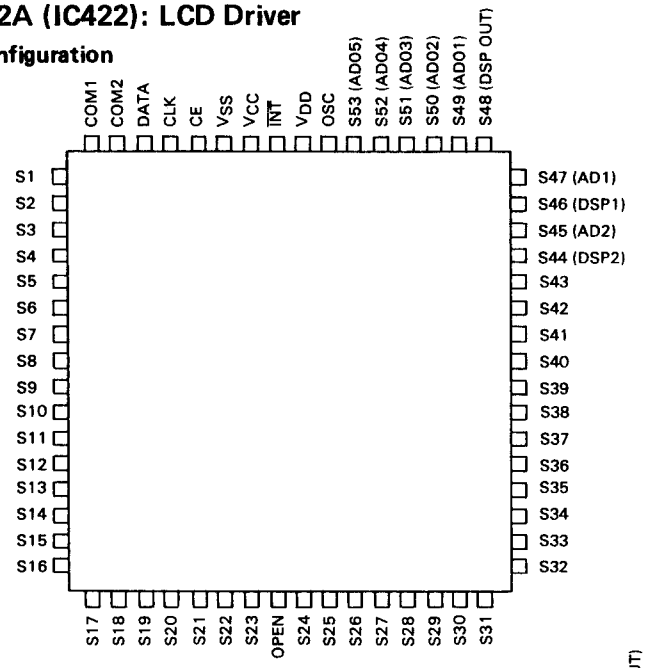



### (2) Pin functions

| Pin No. | Symbol | Name | I/O | Terminal Function |
|---|---|---|---|---|
| 55~60<br>1~21 | SEG.1 ~SEG.27 | Segment 1 ~Segment 27 | O | Drive the LCD segment. |
| 22 | COM 1 | Common 1 | O | Drive the common 1 of the LCD. |
| 54 | COM 2 | Common 2 | O | Drive the common 2 of the LCD. |
| 24 | K0 | Key in 0 | I | Key input |
| 25 | K1 | Key in 1 | I | Key input |
| 26 | K2 | Key in 2 | I | Key input |
| 27 | K3 | Key in 3 | I | Key input |
| 28 | T0 | Key out 0 | O | Key output |
| 29 | T1 | Key out 1 | O | Key output |
| 30 | T2 | Key out 2 | O | Key output |
| 31 | T3 | Key out 3 | O | Key output |
| 32 | T4 | Key out 4 | O | Key output |
| 33 | T5 | Key out 5 | O | Key output |
| 34 | T6 | Key out 6 | O | Key output |
| 35 | A/D IN | A/D input or TUNED input | I | Input for signal meter or input for TUNED indicator |
| 36 | DC REF | DC reference | I | Reference voltage for A/D |
| 37 | P2-4 | Key out 7 | O | Key output |
| 38 | P2-3 | DCS IN | I | Input for Direct Call System |
| 39 | P2-2 | DCS OUT | O | Output for Direct Call System |
| 40 | P2-1 | STEREO IN | I | Input for stereo indicator |
| 41 | MUTE | MUTE | O | "H" output when muting is turned ON. |
| 42 | STB | STB | O | Serial Data Bus (Connect to LC7217.) |
| 43 | CK | CK | O | Serial Data Bus (Connect to LC7217.) |
| 44 | SO | SO | O | Serial Data Bus (Connect to LC7217.) |
| 45 | SI | SI | I | Serial Data Bus (Connect to LC7217.) |
| 46 | REF | REF | O | Output for PLL reference frequency |
| 47 | $\overline{INT}$ | $\overline{INT}$ | I | Initialized at "L" level. |
| 48 | $\overline{INH}$ | $\overline{INH}$ | I | State of inhibit at "L" level |
| 49 | TEST | TEST | – | Terminal of crystal oscillator (7.2 MHz) |
| 50 | XT | XT | – | Terminal of crystal oscillator (7.2 MHz) |
| 51 | $\overline{XT}$ | $\overline{XT}$ | – | Terminal of crystal oscillator (7.2 MHz) |
| 52 | GND | GND | – | Ground |
| 23, 53 | VDD | VDD | – | +5 V (Connecting inside) |

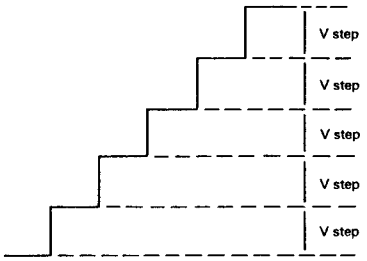
## ■ LC7582A (IC422): LCD Driver

### (1) Pin Configuration

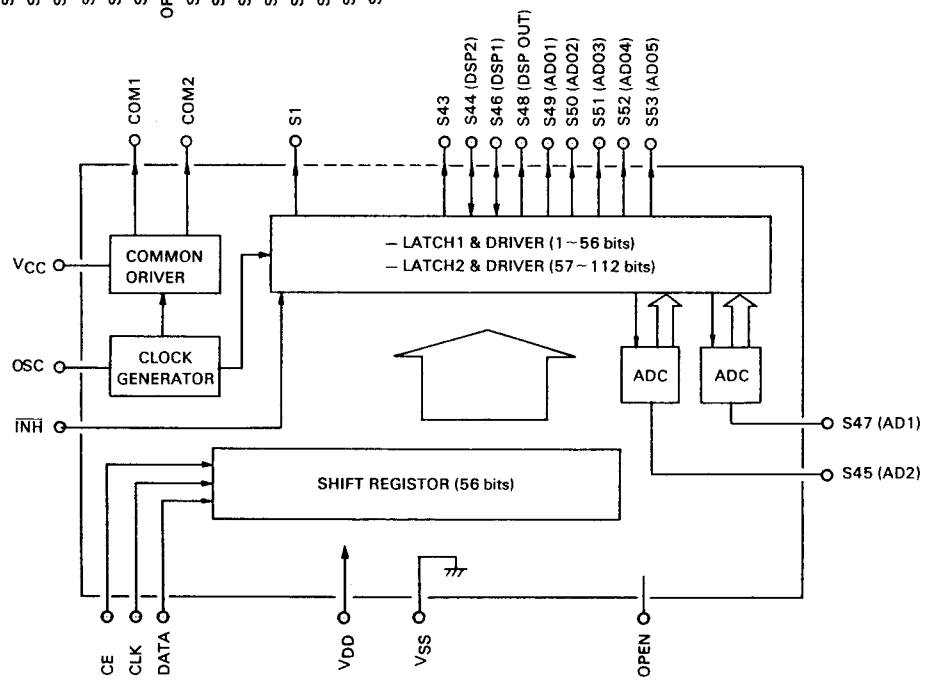



### (2) Step Voltage Differential

Input voltage of S45 (AD2) and S47 (AD1)



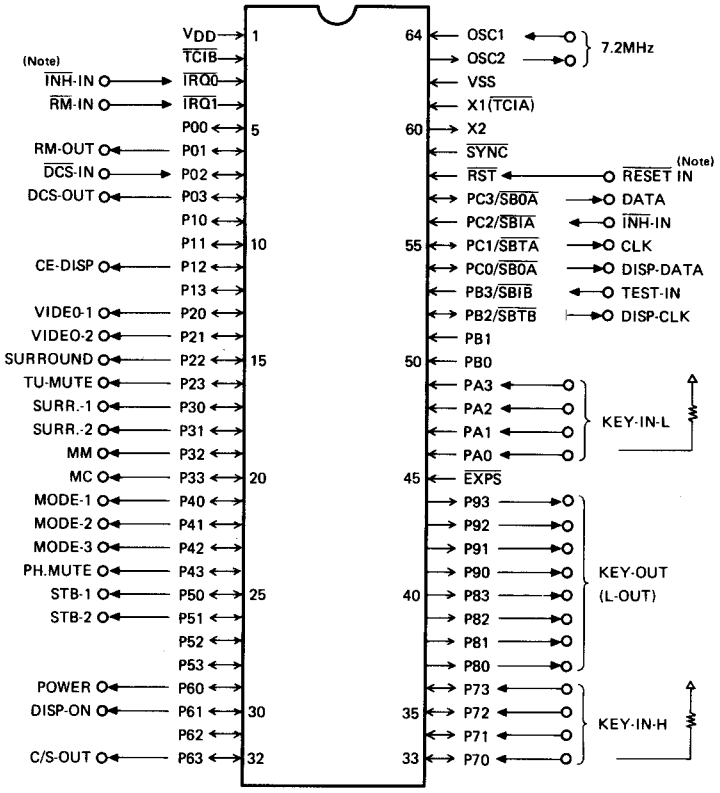

### (3) Block Diagram




### (4) Terminal Description

- S1 ~ S43 : Segment output terminals
- S46 (DSP1), S44 (SDP2) : Segment output or DSP input terminals
- S47 (AD1), S45 (AD2) : Segment output or AD input terminals
- S48 (DSP OUT) : Segment output or ADS output terminal
- S49 ~ S53 (AD0 ~ 5) : Segment output or AD output terminals
- COM1, 2 : Common output terminals (Only COM1 is used at the time of 1/1 duty, at which time COM2 is open.)
- OSC : Oscillator terminal
- CE, CLK, DATA : Input terminals for serial data transmission
- $V_{DD}$, $V_{CC}$ : Power supply terminal
- $\overline{INH}$ : Input terminal for extinguishing and lighting the display (Effective only for the output driver. Therefore, serial data can be sent during extinguishing and lighting.)
- OPEN : Unconnected

## ■ MN17581JSL1 (IC441): System Controller



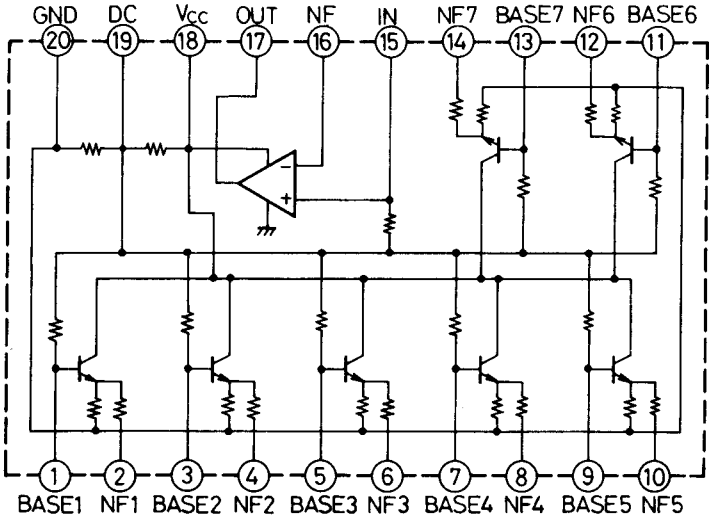

Note: TRQO and PC2/SBIA may be connected and used.

### (2) Pin Functions

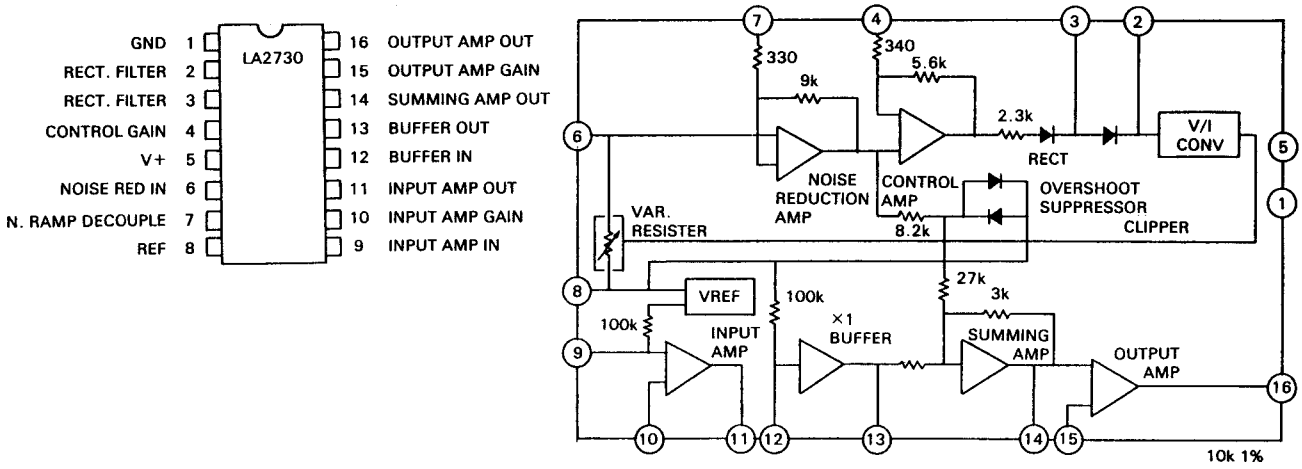
| Pin No. | Port | Input/Output Name | I/O | Function | | Off | Back-up |
|---|---|---|---|---|---|---|---|
| 1 | $V_{DD}$ | ——— | I | 5V | | | |
| 2 | $\overline{TCIB}$ | ——— | I | GND | | | |
| 3 | $\overline{IRQ0}$ | $\overline{INH}$-IN | I | L=AC off; enters back up mode | | | |
| 4 | $\overline{IRQ1}$ | $\overline{RM}$-IN | I | Remote control input | | | |
| 5 | P00 | ——— | | | | L | L |
| 6 | P01 | RM-OUT | O | Remote control IND, ON | | L | L |
| 7 | P02 | $\overline{DCS}$-IN | I | DCS input, Input at negative logic | | L | L |
| 8 | P03 | DCS-OUT | O | DCS output | | L | L |
| 9 | P10 | ——— | | | | | |
| 10 | P11 | ——— | | | | | |
| 11 | P12 | CE-DISP | O | CE of LC7582 (display driver) | | L | L |
| 12 | P13 | | | | | | |
| 13 | P20 | VIDEO-1 | O | VIDEO signal switching | | L | L |
| 14 | P21 | VIDEO-2 | O | VIDEO signal switching | | L | L |
| 15 | P22 | SURROUND | O | H=SURROUND ON | | L | L |
| 16 | P23 | TU-MUTE | O | H=TUNER MUTE (at times other than that of the source tuner) | | L | L |
| 17 | P30 | SURR. 1 | O | Surround switching | | L | L |
| 18 | P31 | SURR. 2 | O | Surround switching | | L | L |
| 19 | P32 | SURR. 3 | O | Surround switching | | L | L |
| 20 | P33 | SURR. 4 | O | Surround switching | | L | L |
| 21 | P40 | MODE-1 | O | Surround mode switching | H=MODE 1 | L | L |
| 22 | P41 | MODE-2 | O | | H=MODE 2 | L | L |
| 23 | P42 | MODE-3 | O | | H=MODE 3 | L | L |
| 24 | P43 | ——— | | | | | |
| 25 | P50 | STB-1 | O | STB of analog switch VOL. | | L | L |
| 26 | P51 | STB-2 | O | STB of analog switch VOL. | | L | L |
| 27 | P52 | ——— | | | | | |
| 28 | P53 | ——— | O | | | L | L |
| 29 | P60 | POWER | O | H=AC (POWER) ON | | L | L |

| Pin No. | Port | Input/Output Name | I/O | Function | Off | Back-up |
|---|---|---|---|---|---|---|
| 30 | P61 | DISP-ON | O | H=display on (INH of the TUBER and LC7582) | L | L |
| 31 | P62 | ——— | | | | |
| 32 | P63 | C/S-OUT | O | Chip select output, L output | L | L |
| 33 | P70 | KEY-IN-H | I | KEY input, L take-in | | L |
| 34 | P71 | KEY-IN-H | I | KEY input, L take-in | | L |
| 35 | P72 | KEY-IN-H | I | KEY input, L take-in | | L |
| 36 | P73 | KEY-IN-H | I | KEY input, L take-in | | L |
| 37 | P80 | KEY-OUT | O | KEY output, L output | | L |
| 38 | P81 | KEY-OUT | O | KEY output, L output | | L |
| 39 | P82 | KEY-OUT | O | KEY output, L output | | L |
| 40 | P83 | KEY-OUT | O | KEY output, L output | | L |
| 41 | P90 | KEY-OUT | O | KEY output, L output | | L |
| 42 | P91 | KEY-OUT | O | KEY output, L output | | L |
| 43 | P92 | KEY-OUT | O | KEY output, L output | | L |
| 44 | P93 | KEY-OUT | O | KEY output, L output | | L |
| 45 | EXPS | ——— | I | OPEN | – | – |
| 46 | PA0 | KEY-IN-L | I | KEY input, L take-in | | |
| 47 | PA1 | KEY-IN-L | I | KEY input, L take-in | | |
| 48 | PA2 | KEY-IN-L | I | KEY input, L take-in | | |
| 49 | PA3 | KEY-IN-L | I | KEY input, L take-in | | |
| 50 | PB0 | ——— | | | L | L |
| 51 | PB1 | ——— | | | | |
| 52 | PB2/$\overline{SBTB}$ | DISP-CLK | O | S-CLK of LC7582 and C.C.S. | L | L |
| 53 | PB3/$\overline{SBIB}$ | TEST-IN | I | H=TEST MODE | L | L |
| 54 | PC0/$\overline{SBOB}$ | DISP-DATA | O | S-DATA of LC7582 and C.C.S. | L | L |
| 55 | PC1/$\overline{SBTA}$ | DISP-CLK | O | S-CLK of analog switch, VOL. | L | L |
| 56 | PC2/$\overline{SBIA}$ | $\overline{INH}$-IN | I | L=AC off; enters back-up mode | – | – |
| 57 | PC3/$\overline{SBOA}$ | INH-DATA | O | S-DATA of analog switch, VOL. | L | L |
| 58 | $\overline{RST}$ | $\overline{RESET}$ | I | $\overline{RESET}$ input | | |
| 59 | $\overline{SYNC}$ | ——— | O | OPEN | | |
| 60 | X2($\overline{TCIA}$) | ——— | I | OPEN | | |
| 61 | X1 | ——— | O | Pull up | | |
| 62 | $V_{SS}$ | ——— | I | GND | | |
| 63 | OSC2 | ——— | O | 7.2 MHz RESONATOR | | |
| 64 | OSC1 | ——— | I | 7.2 MHz RESONATOR | | |

■ **LA3607S (IC501, IC502)**

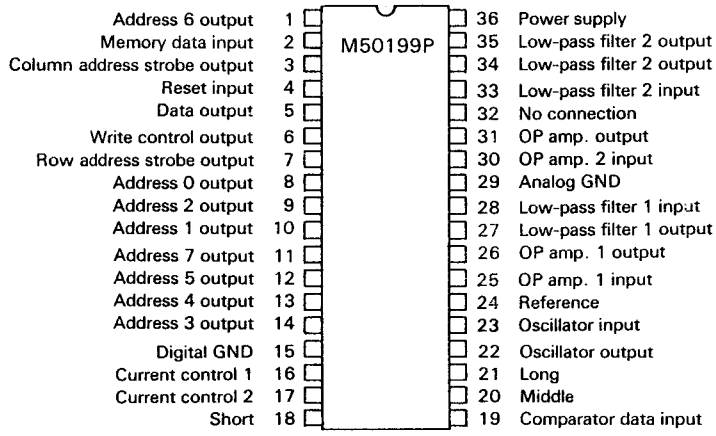


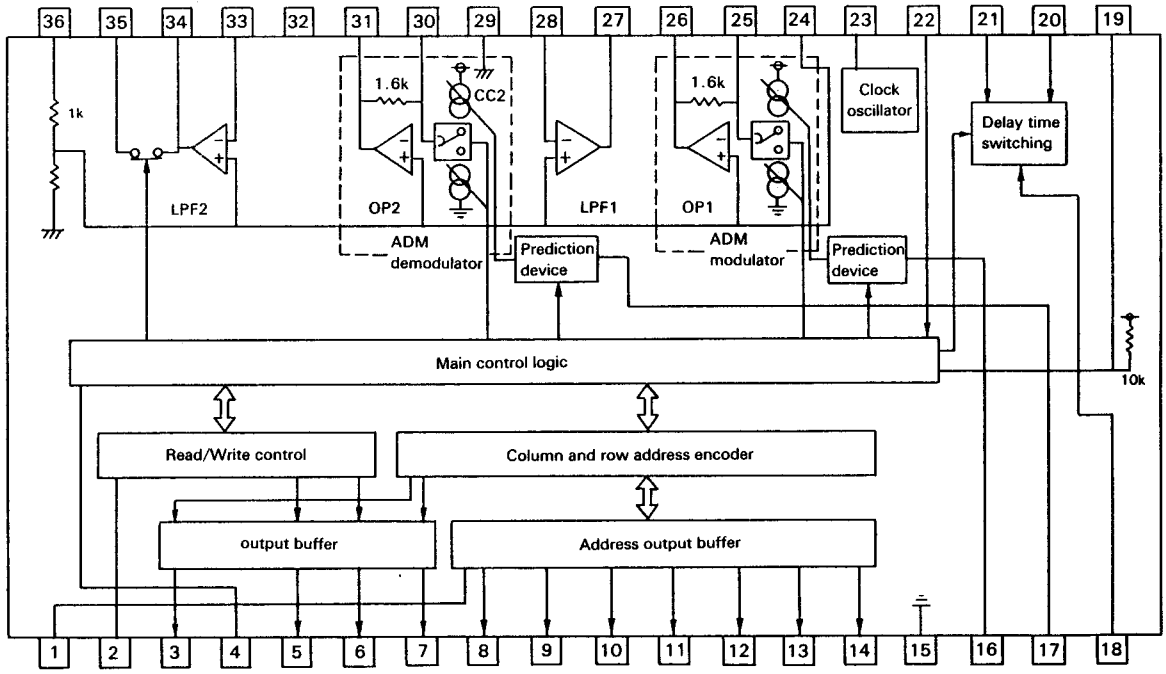
## ■ LA2730 (IC681): Dolby "B" Noise Reduction




## ■ M50199P (IC661): Digital Delay

### (1) Pin Connection Diagram (Top View)



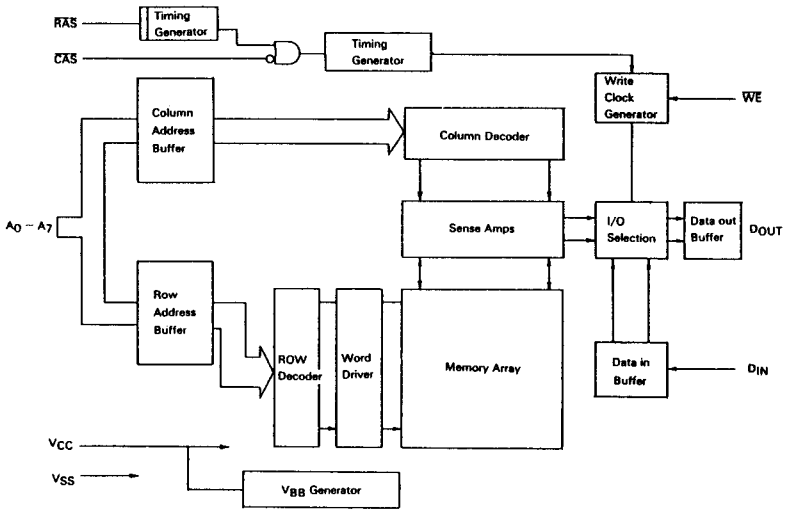



### (2) Pin Name

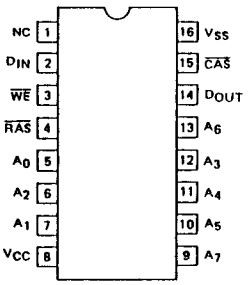
| Pin No. | Name | Name Abbreviated | Method of Use | Standard Output Voltage |
|---|---|---|---|---|
| 1 | Address 6 output | A6 | Connect to A6 (Address input 6) of the memory. | 5 Vpo |
| 2 | Memory data input | MDI | Connect to 0 (Data output) of the memory. | – |
| 3 | Row address strobe output | CAS | Connect to CAS (Column Address Strobe input) of the memory. | 5 Vpo |
| 4 | Reset input | RESET | Reset at L level; the reset is applied by externally connected C and R when the power is switched on. | – |
| 5 | Data output | DO | Connected to D (Data input) of the memory | 5 Vpo |
| 6 | Write control output | W | Connect to W (Write control input) of the memory. | 5 Vpo |
| 7 | Row address strobe output | RAS | Connect to RAS (Row Address Strobe input) of the memory. | 5 Vpo |
| 8 | Address 0 output | A0 | Connect to A0 of the memory. | 5 Vpo |
| 9 | Address 2 output | A2 | Connect to A2 of the memory. | 5 Vpo |
| 10 | Address 1 output | A1 | Connect to A1 of the memory. | 5 Vpo |
| 11 | Address 7 output | A7 | Connect to A7 of the memory. | 5 Vpo |
| 12 | Address 5 output | A5 | Connect to A5 of the memory. | 5 Vpo |
| 13 | Address 4 output | A4 | Connect to A4 of the memory. | 5 Vpo |
| 14 | Address 3 output | A3 | Connect to A3 of the memory. | 5 Vpo |
| 15 | Digital GND | D-GND | Ground at one point with the analog GND. | 5 Vpo |
| 16 | Current control 1 | CC1 | | 0 V |
| 17 | Current control 2 | CC2 | | 0.7 V (When there is no signal) |
| 18 | Short | SHORT | At H level, the delay time is Td = 12.5 ms and the output current for the indicator is 5 mA typ. | 5 V (at S), 0 V (at M and L) |
| 19 | Comparator data input | CDI | Connect to the output of the comparator. | – |
| 20 | Middle | MIDD | At H level, Td = 18.8 ms and the output current for the indicator is 5 mA typ. | 5 V (at M), 0 V (at S and L) |
| 21 | Long | LONG | At H level, Td = 25 ms and the output current for the indicator is 5 mA typ. | 5 V (at L), 0 V (at S and M) |
| 22 | Oscillator output | OSC OUT | Connect a 4 MHz ceramic filter; leave open when using an external clock. | 5 Vp-o |
| 23 | Oscillator input | OSC IN | Connect the 4 MHz ceramic filter or input an external clock. | – |
| 24 | Reference | REF | 1/2 Vcc | –2.5 V |
| 25 | OP amp. 1 input | OP 1 IN | Form a mirror integrator an external C. | 2.5 V |
| 26 | OP amp. 1 output | OP 1 OUT | | 2.5 V |
| 27 | Low-pass filter 1 output | LPF 1 OUT | Form a secondary low-pass filter with an external C and R. | 2.5 V |
| 28 | Low-pass filter 1 input | LPF1 IN | | 2.5 V |
| 29 | Analog GND | A-GND | | 0 V |
| 30 | OP amp. 2 input | OP 2 IN | Form a mirror integrator with an external C. | 2.5 V |
| 31 | OP amp. 2 output | OP 2 OUT | | 2.5 V |
| 32 | No connection | NC | | – |
| 33 | Low-pass filter 2 input | LPF2 IN | Form a secondary low-pass filter with an external C and R. | 2.5 V |
| 34 | Low-pass filter 2 output 1 | LPF2 OUT 1 | | 2.5 V |
| 35 | Low-pass filter 2 output 2 | LPF2 OUT 2 | | 2.5 V |
| 36 | Power supply | Vcc | Apply 4 to 5.5 V (rating 5 V). | – |

## ■ MSM3764A-12RS (IC663): Dynamic RAM

### (1) Circuit Structure

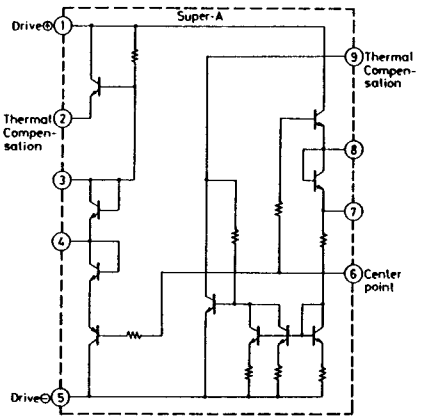



### (2) Terminal Connections (Top View)

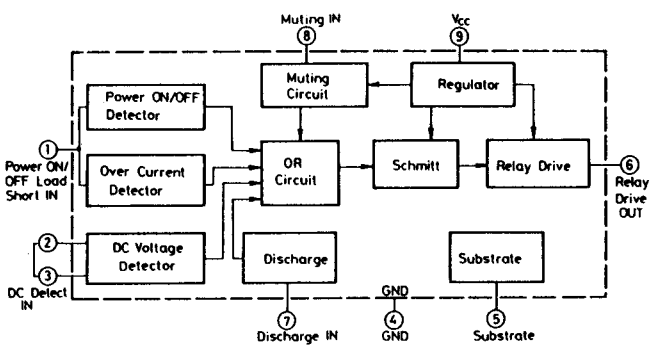



| Pin Name | Function |
|---|---|
| $A_0 \sim A_7$ | Address input |
| $\overline{RAS}$ | Row address strobe |
| $\overline{CAS}$ | Column address strobe |
| $\overline{WE}$ | Write enable |
| DIN | Data input |
| DOUT | Data output |
| VCC | Power supply (5 V) |
| VSS | Ground (0 V) |

## ■ VC5022-2 (IC751, IC752)

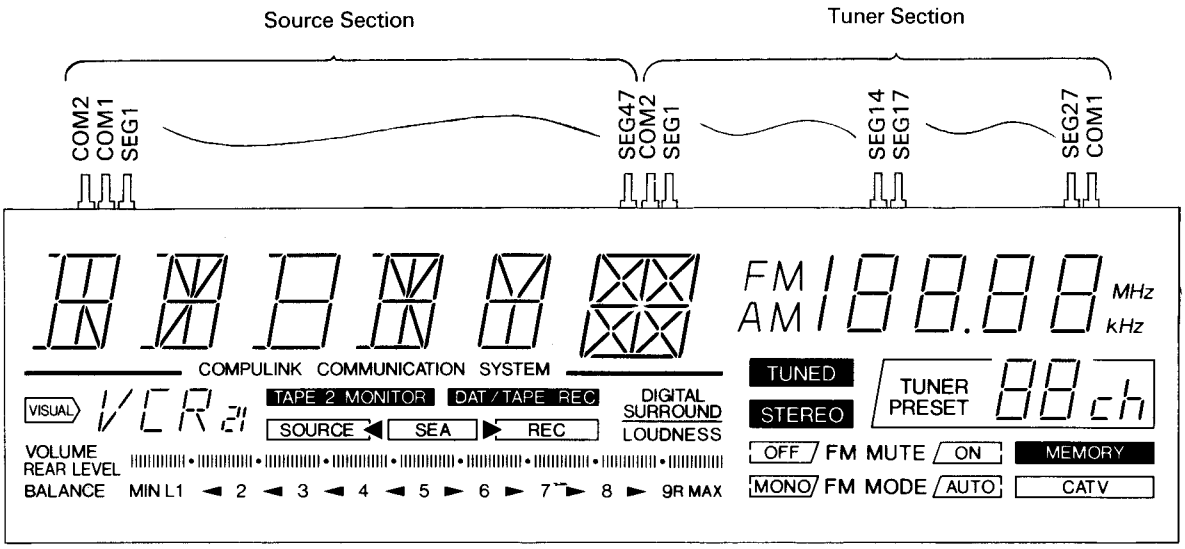



## ■ TA7317P (IC901, IC961)

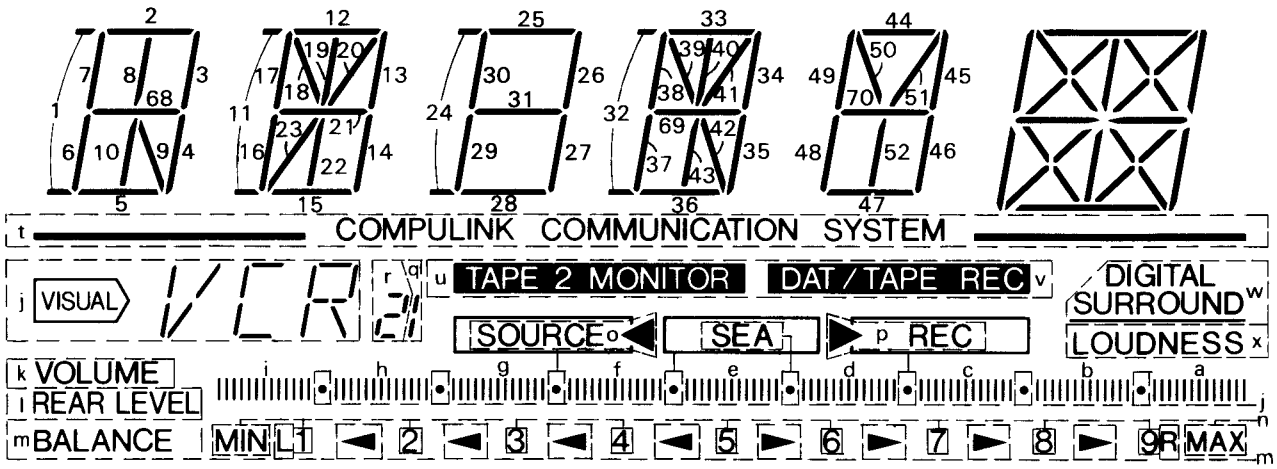


# Internal Wiring of LCD (LC421 : ELU0002-044)

## ■ Terminal Layout




## ■ Source Section

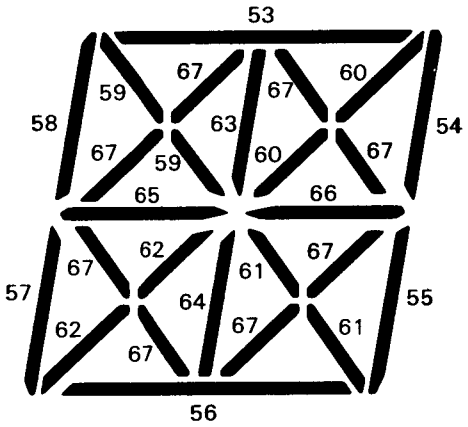



| Common | Segment | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1 | a | c | e | g | i | n | k | q | 1 | 10 | 68 | 8 |
| 2 | b | d | f | h | l | m | r | u | 5 | 6 | 7 | 2 |

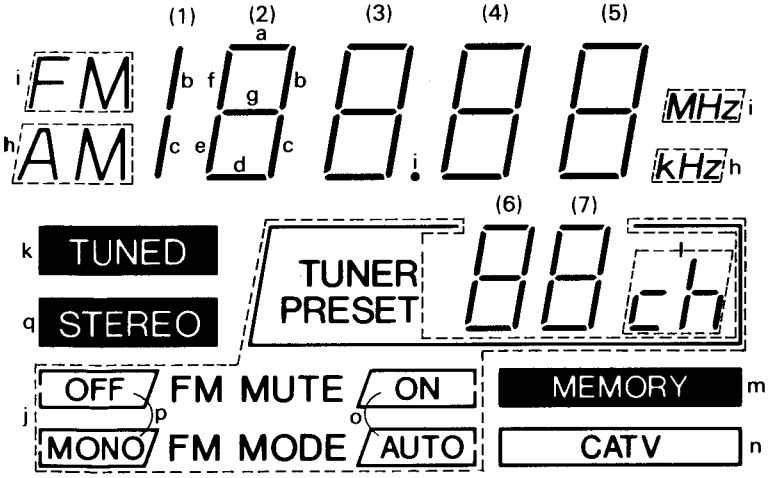
| Common | Segment | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1 | 3 | 11 | 23 | 17 | 19 | 20 | 21 | 22 | 24 | 31 | 26 | 27 |
| 2 | 4 | 9 | 16 | 18 | 12 | 13 | 14 | 15 | 28 | 30 | 25 | 29 |

| Common | Segment | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 1 | 32 | 43 | 39 | 40 | 34 | 69 | 42 | 52 | 70 | 50 | 51 | 46 |
| 2 | 36 | 37 | 38 | 33 | 41 | 35 | 47 | 48 | 49 | 44 | 45 | t |

| Common | Segment | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| 1 | 57 | 65 | 58 | 53 | 54 | 55 | 56 | 67 | p | x | j |
| 2 | 62 | 66 | 59 | 63 | 60 | 61 | 64 | — | o | w | v |



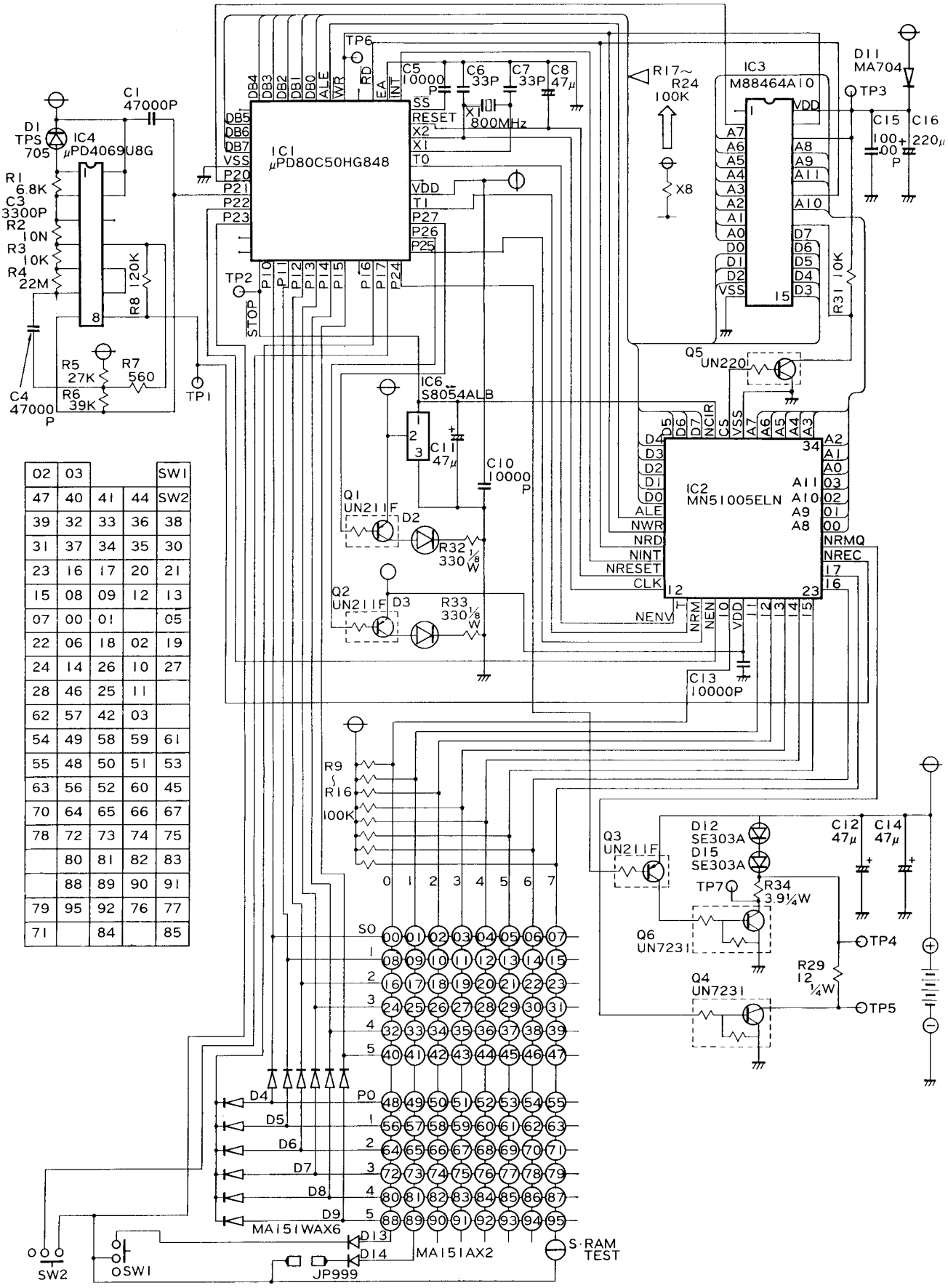

## ■ Tuner Section




| Common | Segment | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1 | *(2)d* | *(2)e* | *(2)f* | *(2)g* | *(3)d* | *(3)e* | *(3)f* | *(3)g* | *(4)d* | *(4)e* | *(4)f* | *(4)g* | *(5)a,c,d,f* |
| 2 | *(1)b,c* | *(2)c* | *(2)a* | *(2)b* | *h* | *(3)c* | *(3)a* | *(3)b* | *i* | *(4)c* | *(4)a* | *(4)b* | *(5)b,e* |

| Common | Segment | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 14 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 1 | *j* | *(6)d* | *(6)e* | *(6)f* | *(6)g* | *(7)d* | *(7)e* | *(7)f* | *(7)g* | *m* | *o* | *q* |
| 2 | *(5)g* | *k* | *(6)c* | *(6)a* | *(6)b* | *l* | *(7)c* | *(7)a* | *(7)b* | *n* | *p* | — |

# Remote Control Unit (RM-SR777)




| | | | | |
|---|---|---|---|---|
| 02 | 03 | | | SW1 |
| 47 | 40 | 41 | 44 | SW2 |
| 39 | 32 | 33 | 36 | 38 |
| 31 | 37 | 34 | 35 | 30 |
| 23 | 16 | 17 | 20 | 21 |
| 15 | 08 | 09 | 12 | 13 |
| 07 | 00 | 01 | | 05 |
| 22 | 06 | 18 | 02 | 19 |
| 24 | 14 | 26 | 10 | 27 |
| 28 | 46 | 25 | 11 | |
| 62 | 57 | 42 | 03 | |
| 54 | 49 | 58 | 59 | 61 |
| 55 | 48 | 50 | 51 | 53 |
| 63 | 56 | 52 | 60 | 45 |
| 70 | 64 | 65 | 66 | 67 |
| 78 | 72 | 73 | 74 | 75 |
| | 80 | 81 | 82 | 83 |
| | 88 | 89 | 90 | 91 |
| 79 | 95 | 92 | 76 | 77 |
| 71 | | 84 | | 85 |

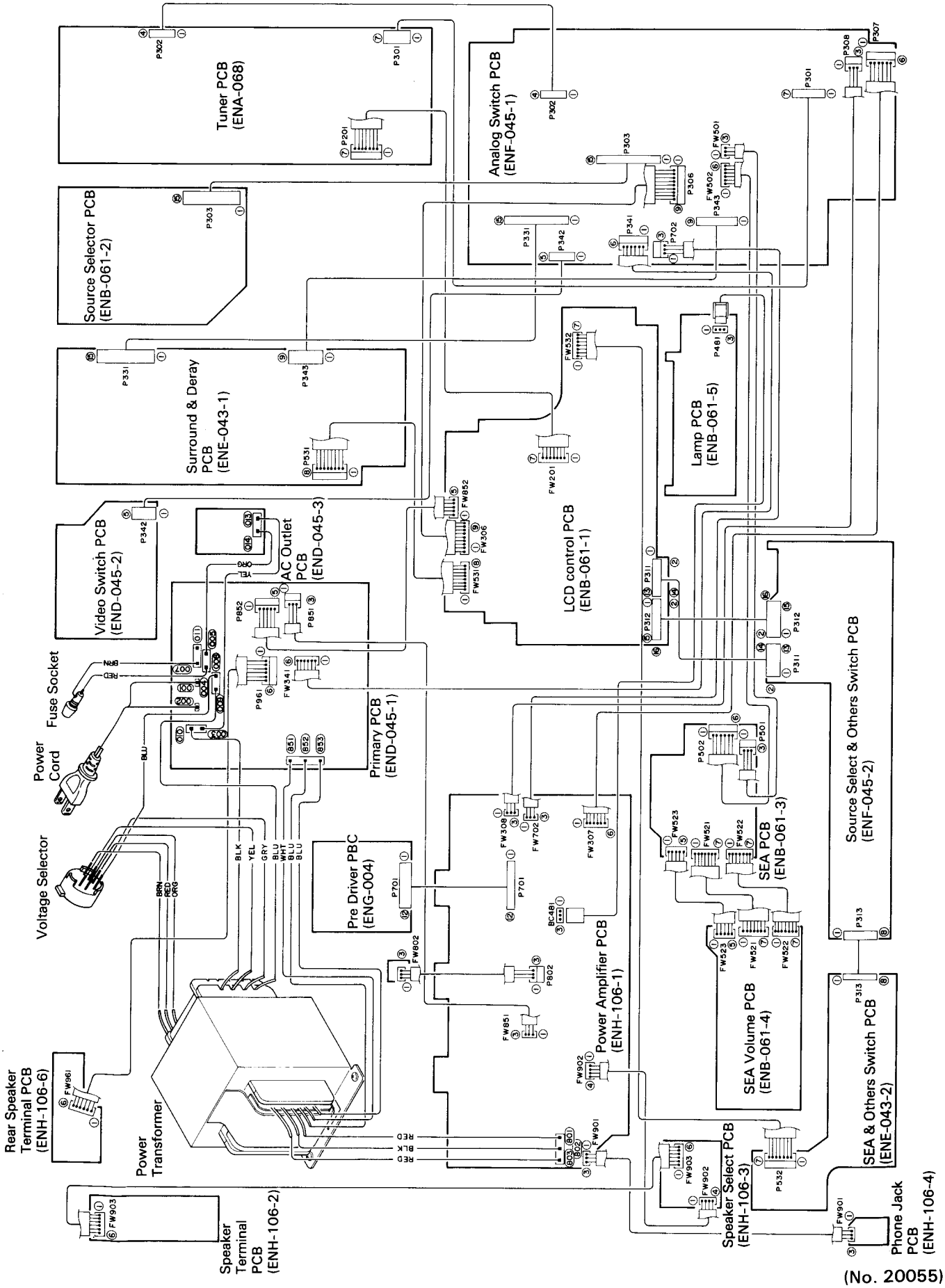
| No. | EUR6650 (JP. OPEN) | |
|---|---|---|
| 00 | TV P. | 03 17 |
| 01 | VCR P. | 43 OB |
| 02 | DISC | MODE CHANGE |
| 03 | 9 | * |
| 04 | —— | —— |
| 05 | SLEEP | A3 03 |
| 06 | PRGM | B3 71 |
| 07 | AUDIO P. | A3 17 |
| 08 | U | LEARN |
| 09 | V | ↓ |
| 10 | 3 | * |
| 11 | 6 | * |
| 12 | W | LEARN |
| 13 | X | ↓ |
| 14 | 1 | * |
| 15 | T | LEARN |
| 16 | P | ↓ |
| 17 | Q | ↓ |
| 18 | MAG. P | B3 73 |
| 19 | TRACK | MODE CHANGE |
| 20 | R | LEARN |
| 21 | S | ↓ |
| 22 | CONT. | B3 77 |
| 23 | O | LEARN |
| 24 | FM | A3 08 |
| 25 | 5 | * |
| 26 | 2 | * |
| 27 | TV ch | A3 10<br>43 10 |
| 28 | AM | A3 09 |
| 29 | —— | —— |
| 30 | N | LEARN |
| 31 | J | ↓ |
| 32 | F | ↓ |
| 33 | G | ↓ |
| 34 | L | ↓ |
| 35 | M | ↓ |
| 36 | H | ↓ |
| 37 | K | ↓ |
| 38 | I | ↓ |
| 39 | E | ↓ |
| 40 | B | ↓ |
| 41 | C | ↓ |
| 42 | 8 | * |
| 43 | —— | —— |
| 44 | D | LEARN |
| 45 | IOKEY (CD) | MODE CHANGE |
| 46 | 4 | * |
| 47 | A | LEARN |
| 48 | ■ (PHONO) | B3 03 |
| 49 | 10 | * |

| No. | EUR6650 (JP. OPEN) | |
|---|---|---|
| 50 | CH− | * |
| 51 | CH+ | * |
| 52 | ⏮ (CD) | B3 58 |
| 53 | SUR. ON/OFF | A3 05 |
| 54 | VCR 2 | A2 12<br>03 11 |
| 55 | ▶ (PHONO) | A3 3C |
| 56 | ■ (CD) | B3 43 |
| 57 | 7 | * |
| 58 | +10 | * |
| 59 | 0 | * |
| 60 | ⏭ (CD) | B3 59 |
| 61 | SEA SOU. | A3 30 |
| 62 | VCR 1 | A3 11<br>03 11 |
| 63 | ▶ (CD) | A3 3D |
| 64 | ■ (TAPE1) | 83 43 |
| 65 | ⏮ (TAPE1) | 83 18 |
| 66 | ⏭ (TAPE1) | 83 19 |
| 67 | ◀▮▶ (TAPE1) | 83 OB |
| 68 | —— | —— |
| 69 | | |
| 70 | ▶ (TAPE1) | A3 3F |
| 71 | MUTE | A3 1C |
| 72 | DELAY | A3 48 |
| 73 | MODE | A3 58 |
| 74 | REAR− | A3 4F |
| 75 | REAR+ | A3 4E |
| 76 | ▶ | * |
| 77 | ▶▶ | * |
| 78 | TAPE2 | A3 07 |
| 79 | DAT | MODE CHANGE |
| 80 | ■ (DAT) | 93 53 |
| 81 | ⏮ (DAT) | 93 68 |
| 82 | ⏭ (DAT) | 93 69 |
| 83 | IOKEY (DAT) | |
| 84 | VOL. − | A3 1F |
| 85 | VOL. + | A3 1E |
| 86 | ▶ (DAT) | 93 5C |
| 87 | —— | —— |
| 88 | VCR | * |
| 89 | ▮▮ | * |
| 90 | ■ | * |
| 91 | ● | * |
| 92 | ◀◀ | * |
| 93 | | |
| 94 | —— | —— |
| 95 | TAPE1 | MODE CHANGE |
| | | |
| | | |
| | | |
| | | |

## Parts List

| Parts Number | Parts Name | Q'ty | Description |
|---|---|---|---|
| EUR66EC3A | Battery Cover | 1 | |
| ECR66CS2A | Bottom Case | 1 | |
| EUR66CS36 | Upper Case | 1 | |
| EUR64SB125 | Smoked Plate | 1 | |
| EUR66CT5C | Rubber Contact | 1 | |
| EUR66TM85 | Slide Knob | 1 | (USE/LEARN) |
| EUR66TM8 | Slide Knob | 1 | (1/2) |
| EUR66PP37A | Name Plate | 1 | |
| EUR66TD21 | Battery Contact | 1 | (+) |
| EUR66TD22 | Battery Spring | 1 | (−) |
| EUR64TD668 | Common Contact | 2 | (+, −) |
| EUR60TD48 | Common Contact | 1 | (+, −) |
| SSSB2008M | Tappiog Screw | 1 | (for Bottom Case) |
| SDSF2005M | Tapping Screw | 2 | (for Main PC Board) |
| EUR66VPB20 | Main PC Board Ass'y | 1 set | (t=1) |
| μPD80C50HG848 | Microcomputer | 1 | IC1 |
| MN51005ELN | Gate Array | 1 | IC2 |
| MB8464A10MAT | S-RAM | 1 | IC3 |
| S8054ALB | Reset IC | 1 | IC6 |
| UN211FTW | Tip Transistor | 3 | Q1, Q2, Q3 |
| UN7231TW | Tip Transistor | 1 | Q4 |
| UN221DTW | Tip Transistor | 1 | Q5 |
| UN7231TW | Tip Transistor | 1 | Q6 |
| LN1361C | LED | 1 | D2 (Green) |
| LN1261C | LED | 1 | D3 (Red) |
| MA151WATW | Tip Diode | 6 | D4~D9 |
| MA704TW | Tip Diode | 1 | D11 |
| SE303AS | LED | 2 | D12, D15 |
| MA151ATW | Tip Diode | 1 | D13, D14 |
| CSA800MT | Ceramic Oscillator | 1 | X1 |
| ESD10621 | Slide Switch | 2 | SW1, SW2 |
| EUR66VPB18 | Sub PC Board Ass'y | 1 set | (t=1.2) |
| MPD4069U8G | Microcomputer | 1 | IC4 |
| TPS705 | Diode | 1 | D1 |

# Connection Diagram



RX-777VBK
RX-777VSBK
RX-777VLBK

JVC

# SERVICE MANUAL

## COMPUTER CONTROLLED RECEIVER

MODEL No. **RX-777VBK**
**RX-777VSBK**
**RX-777VLBK**

**Supplement**

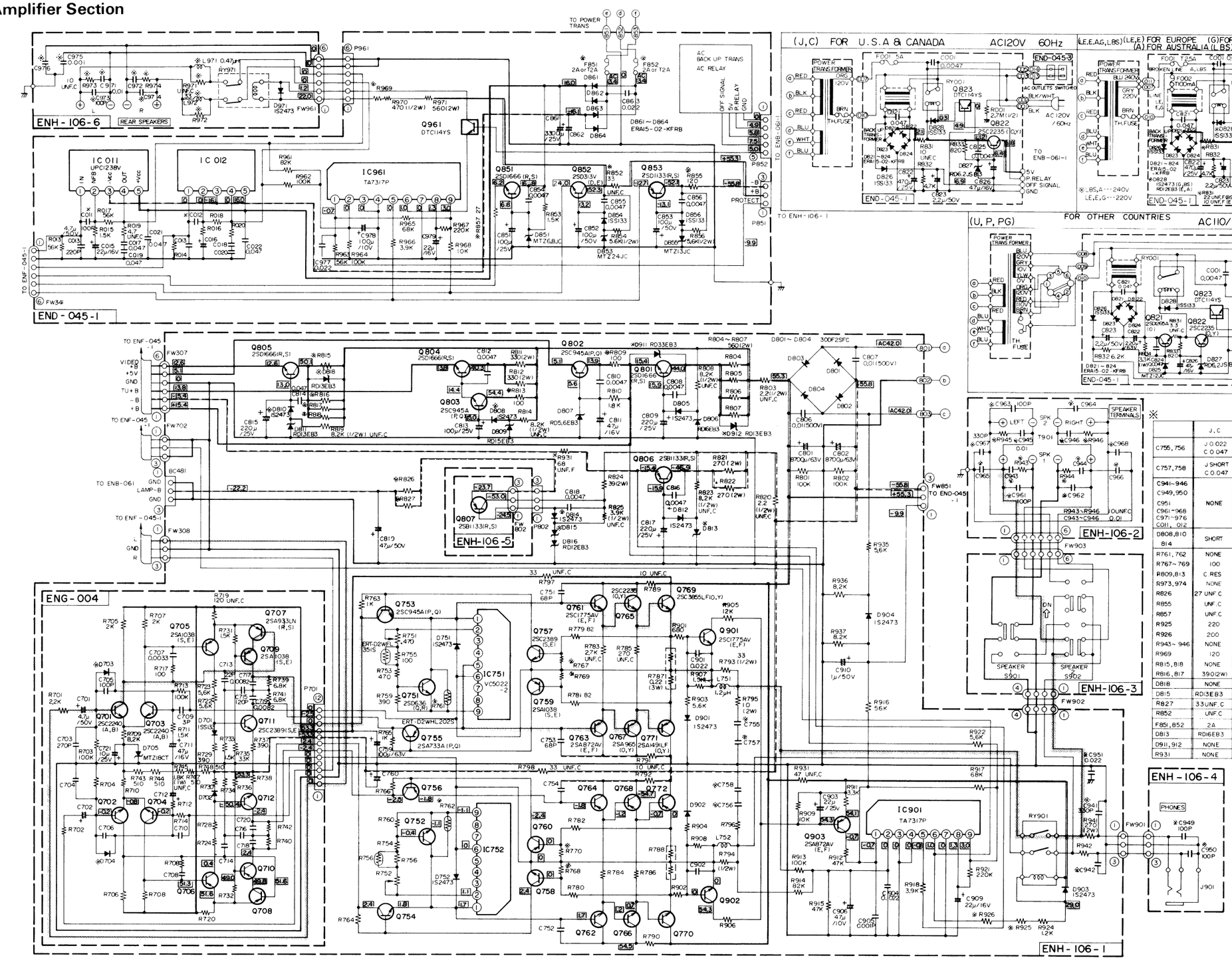
It is announced that the latest products of this model have been partially altered in the circuits for raising the efficiency.
For servicing this model, refer to the service manual (No. 20055) together with this supplement.

- Improved circuit boards : Power Amplifier Section
  Source Selector and SEA Control Section
  Video Selector and Surround Section
- Serial numbers of altered products :
  - RX-777VBKJ (only for the U.S.A.) ..... of and after # 00003016
  - RX-777VSBKJ (only for the U.S.A.) ..... of and after # 00002501
  - Other types of this series ..... all products

**No. 20055B**
Sep. 1988

# Schematic Diagrams

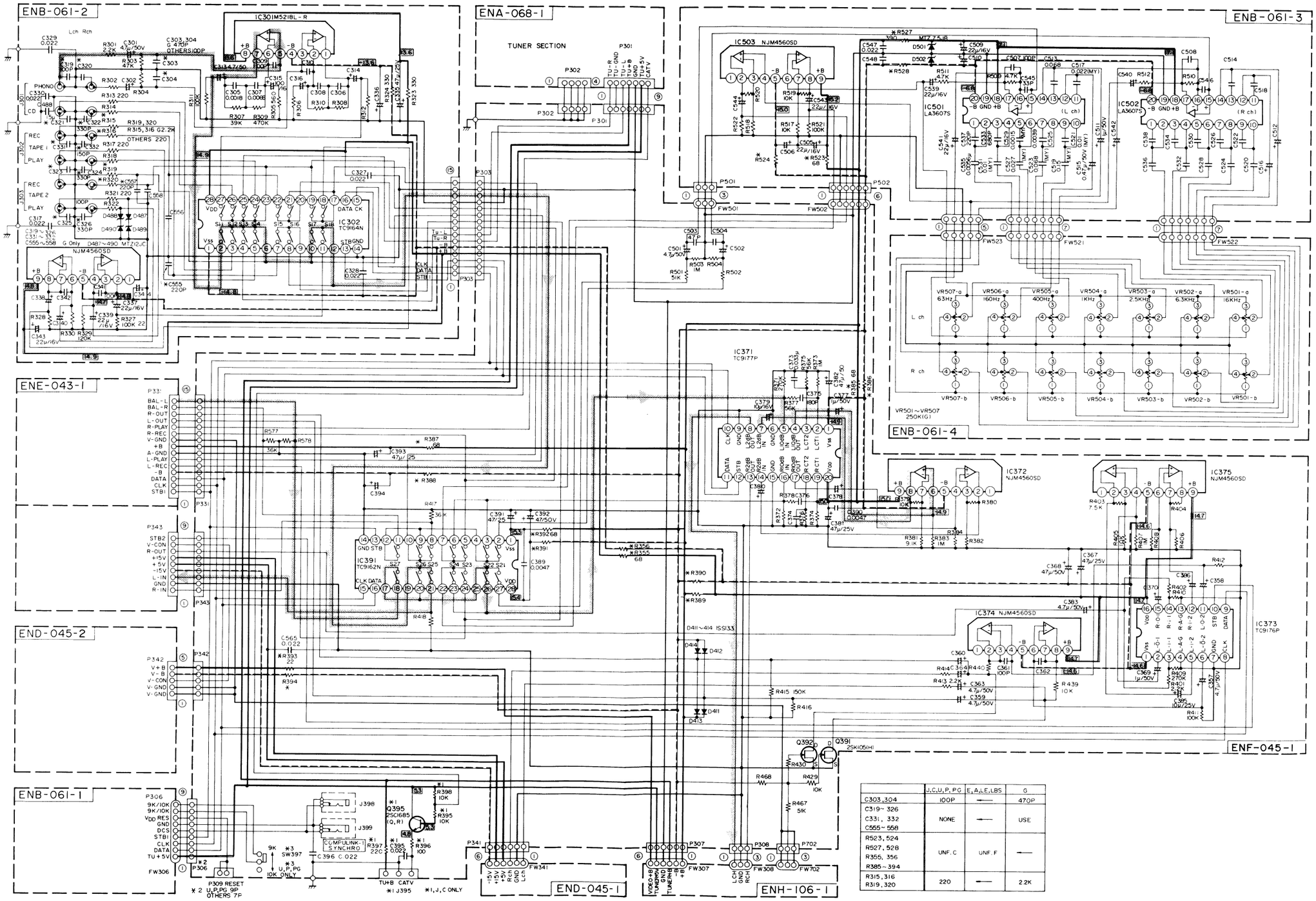
## (4) Power Amplifier Section




| | J, C | U,P,PG | LBS,E,LE,A | G |
|---|---|---|---|---|
| C755, 756 | J 0.022<br>C 0.047 | 0.022 | 0.047 | — |
| C757, 758 | J SHORT<br>C 0.047 | SHORT | 0.047 | — |
| C941~946<br>C949, 950<br>C951<br>C961~968<br>C971~976<br>C011, 012 | NONE | — | — | USED |
| D808, 810<br>814 | SHORT | — | USED | — |
| R761, 762 | NONE | — | USED | — |
| R767~769 | 100 | 110 | — | — |
| R809, 813 | C RES | — | UNF.F | — |
| R973, 974 | NONE | — | — | USED |
| R826 | 27 UNF.C | — | 22UNF.F | — |
| R855 | UNF.C | — | UNF.F | — |
| R857 | UNF.C | — | UNF.F | — |
| R925 | 220 | 130 | — | — |
| R926 | 200 | 150 | — | — |
| R943~946 | NONE | — | — | USED |
| R969 | 120 | 39 | — | — |
| R815, 818 | NONE | NONE | 6801/2W | — |
| R816, 817 | 390(2W) | — | 6801/2W | — |
| D818 | NONE | — | USED | — |
| D815 | RD13EB3 | — | RD12EB3 | — |
| R827 | 33UNF.C | — | 22UNF.F | — |
| R852 | UNF.C | — | UNF.F | — |
| F851, 852 | 2A | 2A | T2A | T2A |
| D813 | RD16EB3 | — | RD20EB3 | — |
| D911, 912 | NONE | — | USED | — |
| R931 | NONE | — | USED | — |

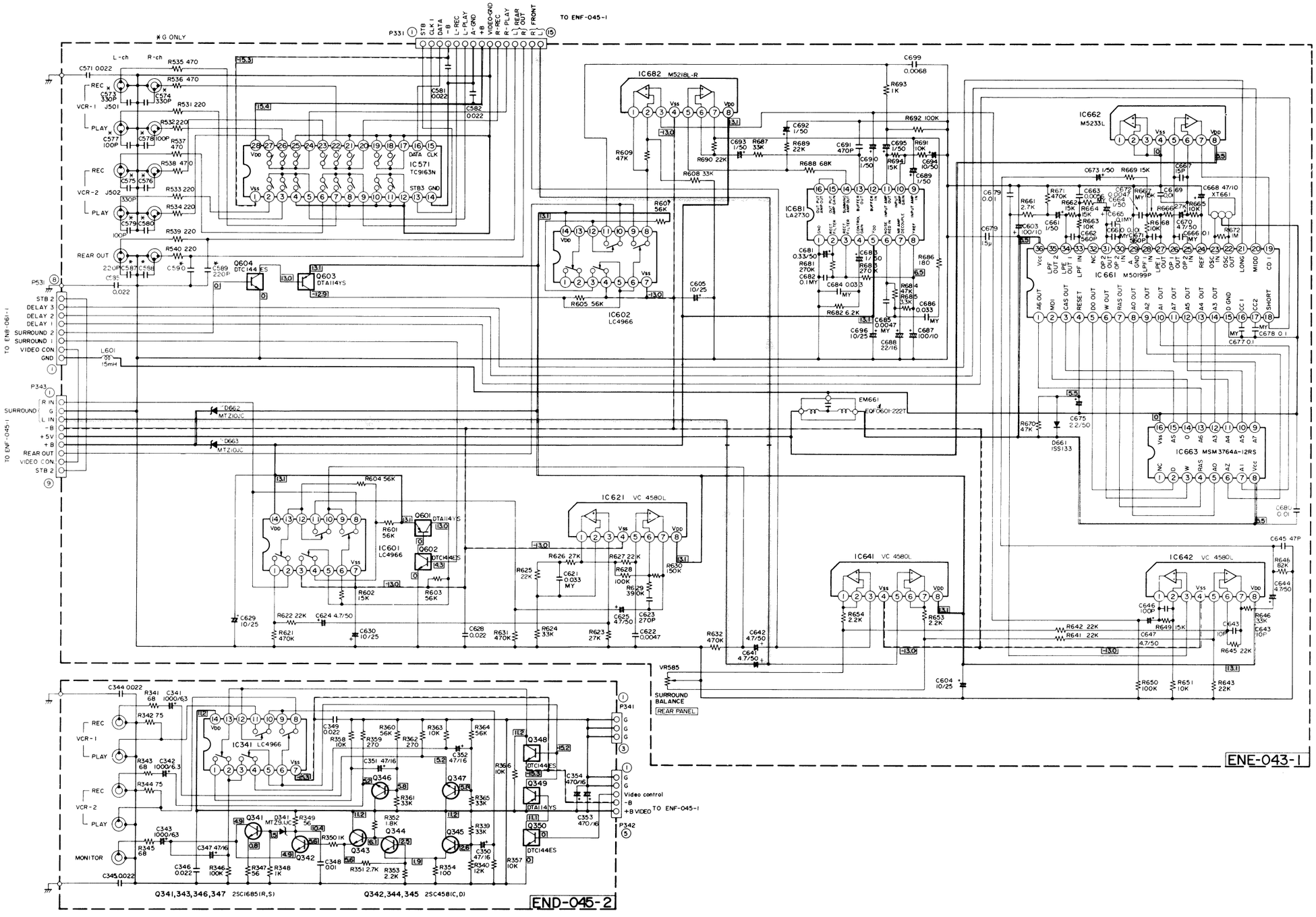
RX-777VBK
RX-777VSBK
RX-777VLBK

## (5) Source Selector and SEA Control Section




| | J,C,U,P,PG | E,A,LE,LBS | G |
|---|---|---|---|
| C303,304 | 100P | — | 470P |
| C319~326<br>C331, 332<br>C555~558 | NONE | — | USE |
| R523,524<br>R527,528<br>R355,356<br>R385~394 | UNF.C | UNF.F | — |
| R315,316<br>R319,320 | 220 | — | 2.2K |

## (6) Video Selector and Surround Section



RX-777VBK
RX-777VSBK
RX-777VLBK

JVC

# SERVICE MANUAL

## COMPUTER CONTROLLED RECEIVER

MODEL No. **RX-777VBK**
**RX-777VSBK**
**RX-777VLBK**

**Supplement**

**Notice of the Change of Parts:**

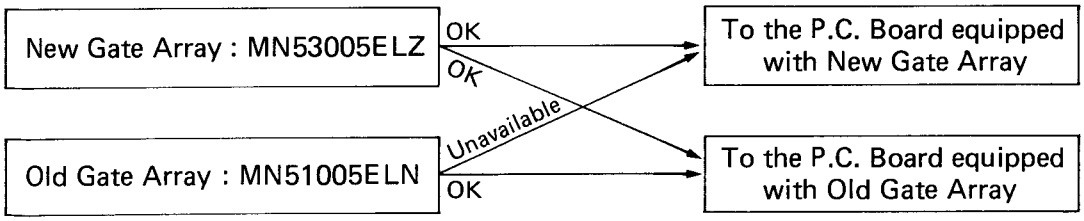
In mid course of production of the Remote Control Unit (RM-SR777), an accessory of the RX-777VBK/VSBK/VLBK, the Gate Array (IC2) installed in the RM-SR777 has been changed as follows:

| Gate Array in early products | → | Gate Array in late products |
|---|---|---|
| MN51005ELN | | MN53005ELZ |

Since there are no resistors built in the previous Gate Array, the P.C. board of early products of the RM-SR777 is equipped with 16 resistors.

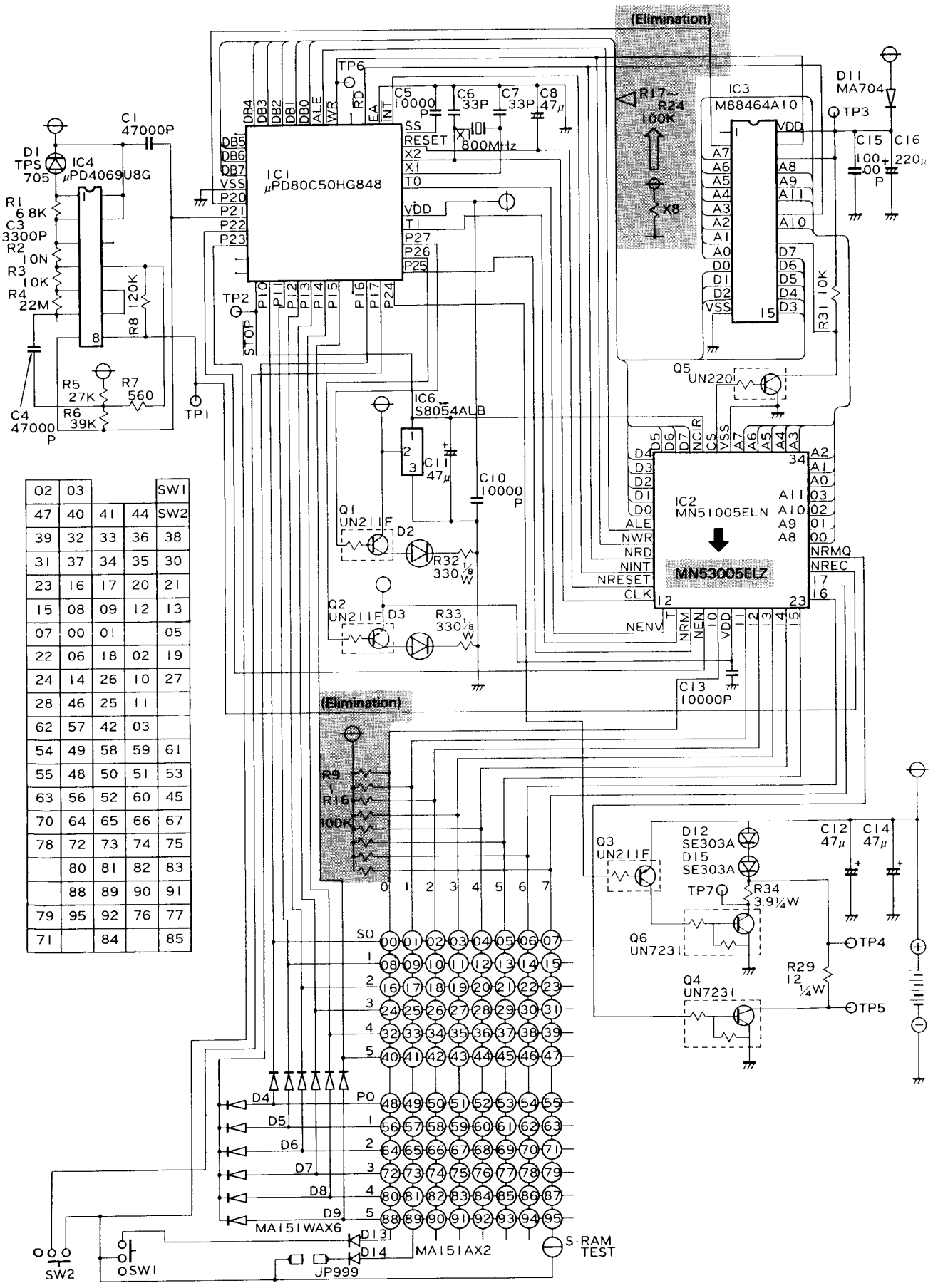
On the other hand, there are no resistors installed in the P.C. board of late products since resistors are built in the new Gate Array.

■ **Replaceability of New and Old Gate Arrays**


New Gate Array : MN53005ELZ
OK
OK
To the P.C. Board equipped with New Gate Array
Unavailable
Old Gate Array : MN51005ELN
OK
To the P.C. Board equipped with Old Gate Array

No. 20055C
Feb. 1989

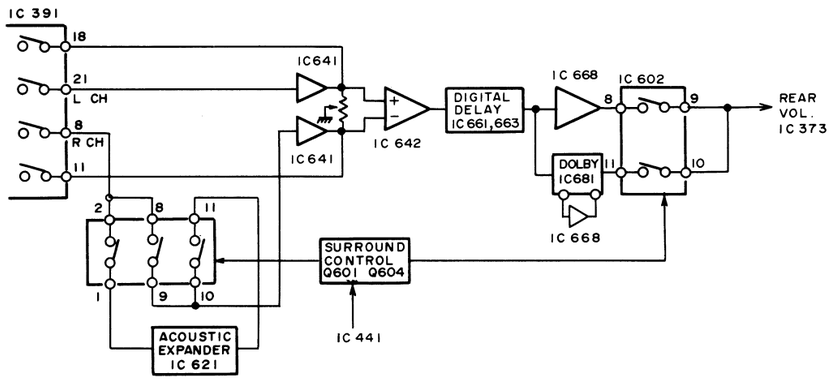
# Remote Control Unit (RM-SR777)



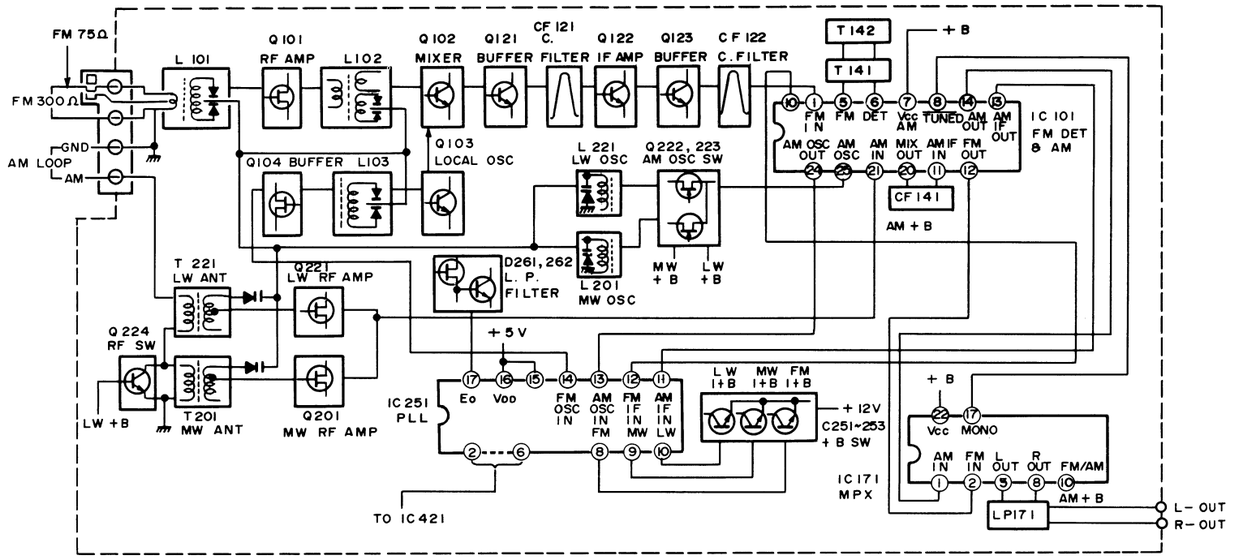

| | | | | |
|---|---|---|---|---|
| 02 | 03 | | | SW1 |
| 47 | 40 | 41 | 44 | SW2 |
| 39 | 32 | 33 | 36 | 38 |
| 31 | 37 | 34 | 35 | 30 |
| 23 | 16 | 17 | 20 | 21 |
| 15 | 08 | 09 | 12 | 13 |
| 07 | 00 | 01 | | 05 |
| 22 | 06 | 18 | 02 | 19 |
| 24 | 14 | 26 | 10 | 27 |
| 28 | 46 | 25 | 11 | |
| 62 | 57 | 42 | 03 | |
| 54 | 49 | 58 | 59 | 61 |
| 55 | 48 | 50 | 51 | 53 |
| 63 | 56 | 52 | 60 | 45 |
| 70 | 64 | 65 | 66 | 67 |
| 78 | 72 | 73 | 74 | 75 |
| | 80 | 81 | 82 | 83 |
| | 88 | 89 | 90 | 91 |
| 79 | 95 | 92 | 76 | 77 |
| 71 | | 84 | | 85 |

# Block Diagram

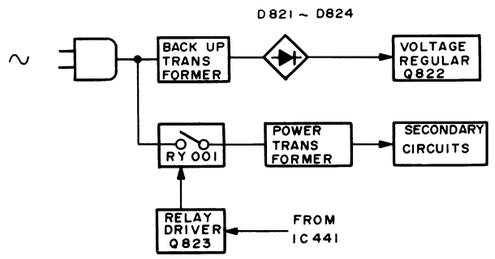
## ■ Surround Section




## ■ Tuner Section

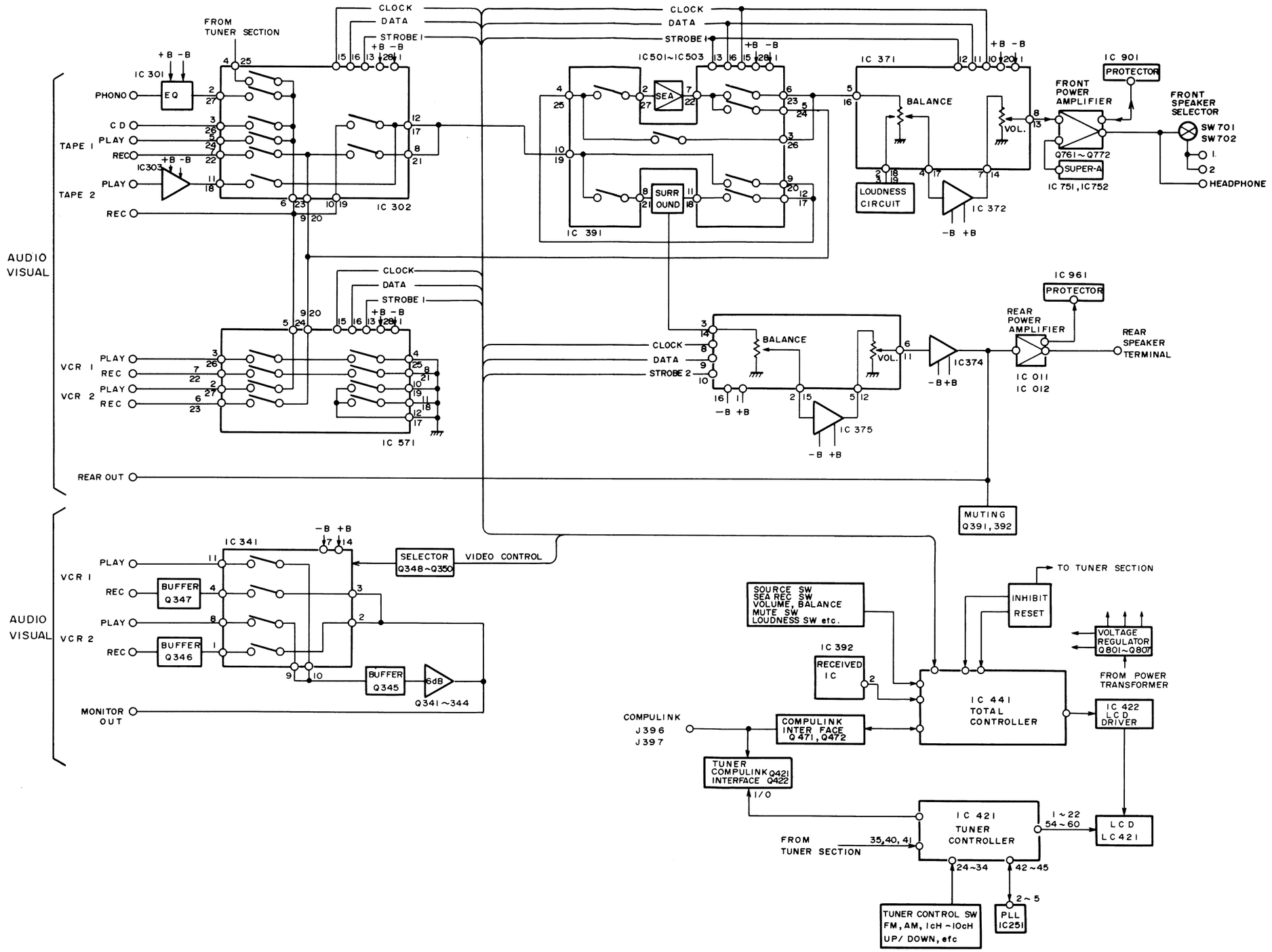



## ■ Power Supply Section



RX-777VBK
RX-777VSBK
RX-777VLBK

## ■ Control and Amplifier Section

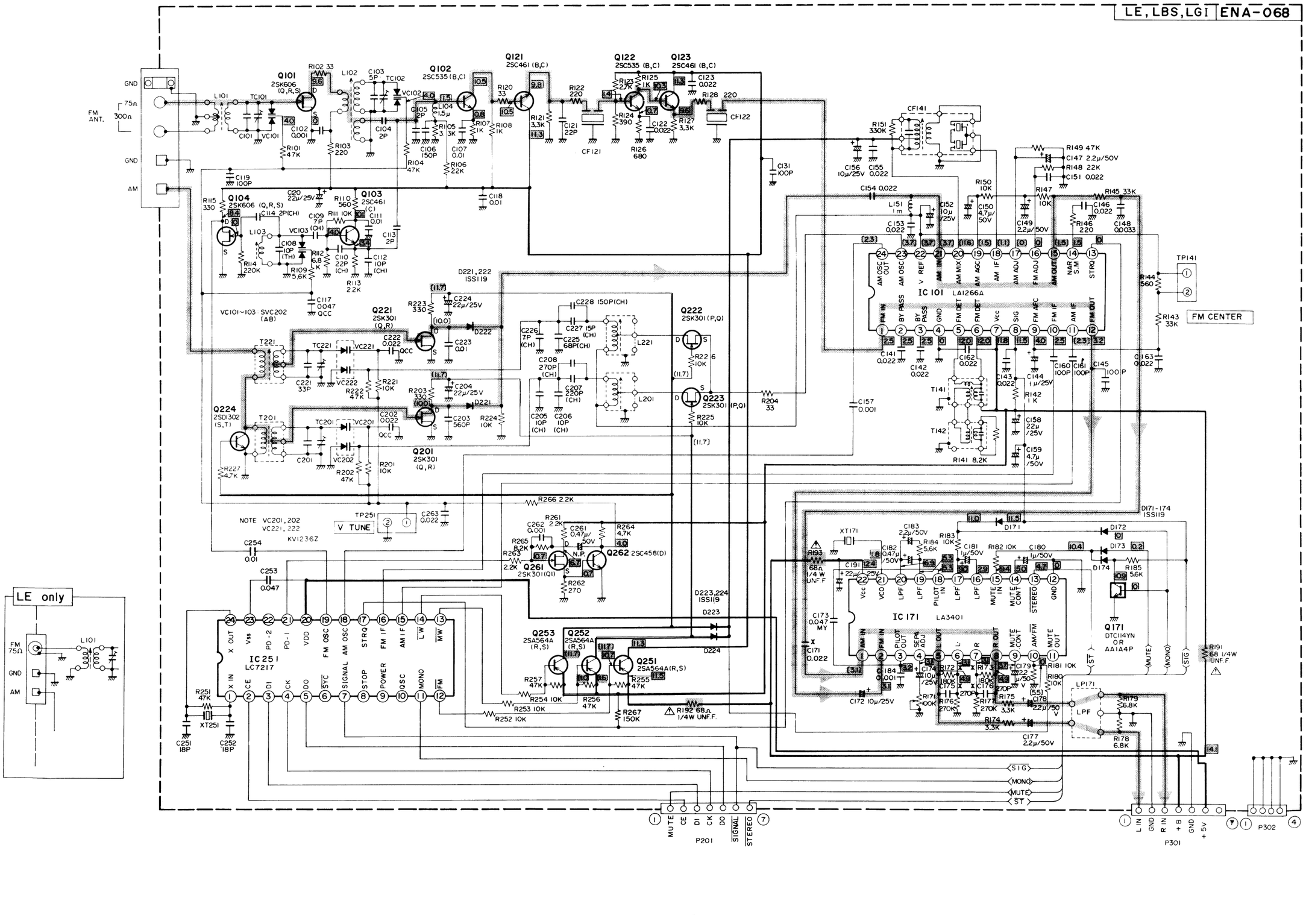




(No. 20055)

# Schematic Diagrams

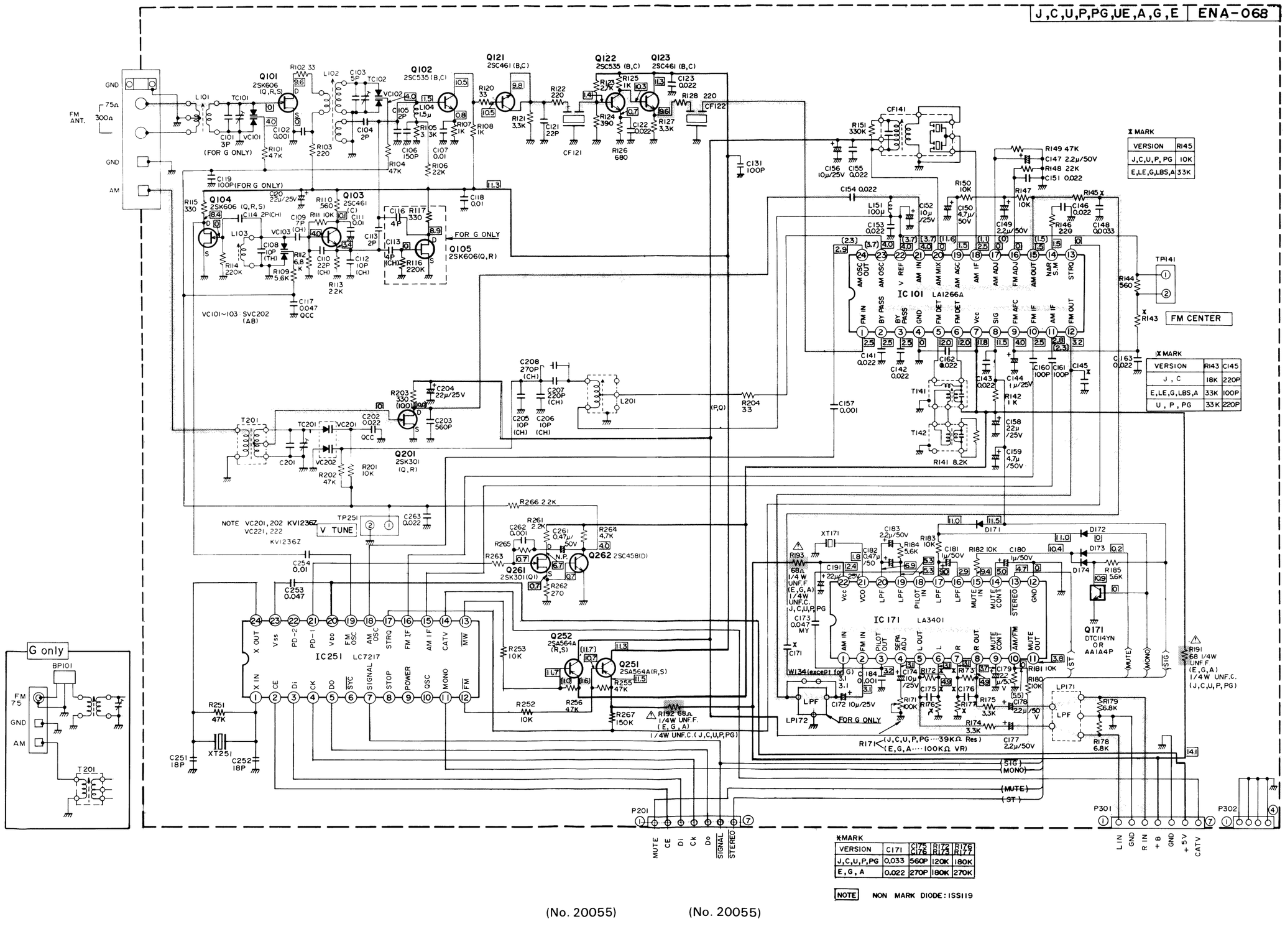
## (1) RX-777 VLBK Tuner Section




(No. 20055)

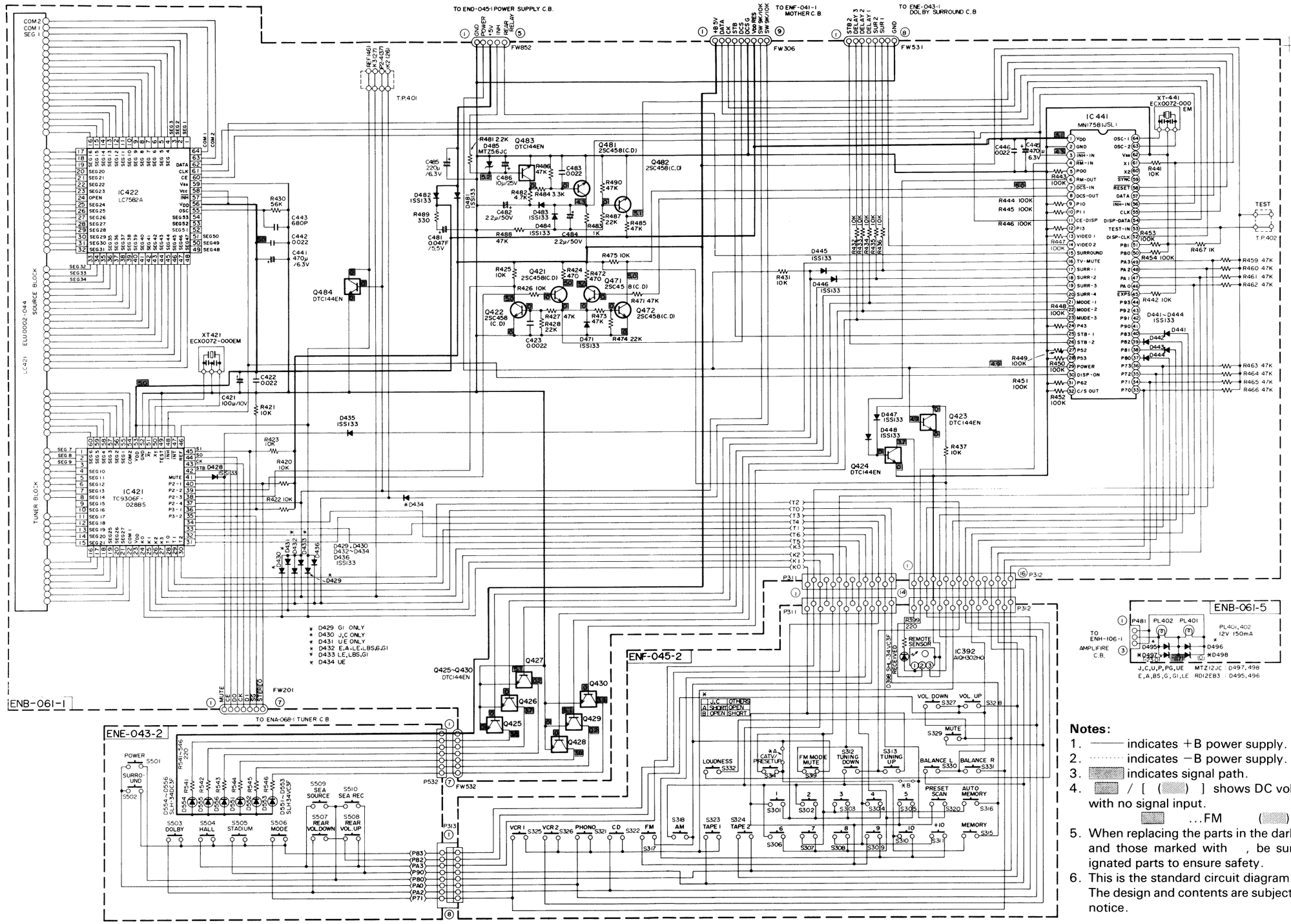
| | |
|---|---|
| RX-777VBK | RX-777VBK |
| RX-777VSBK | RX-777VSBK |
| RX-777VLBK | RX-777VLBK |

## (2) RX-777 VBK, RX-777 VSBK Tuner Section




(No. 20055) (No. 20055)

## (3) LCD Control and Front Switch Section



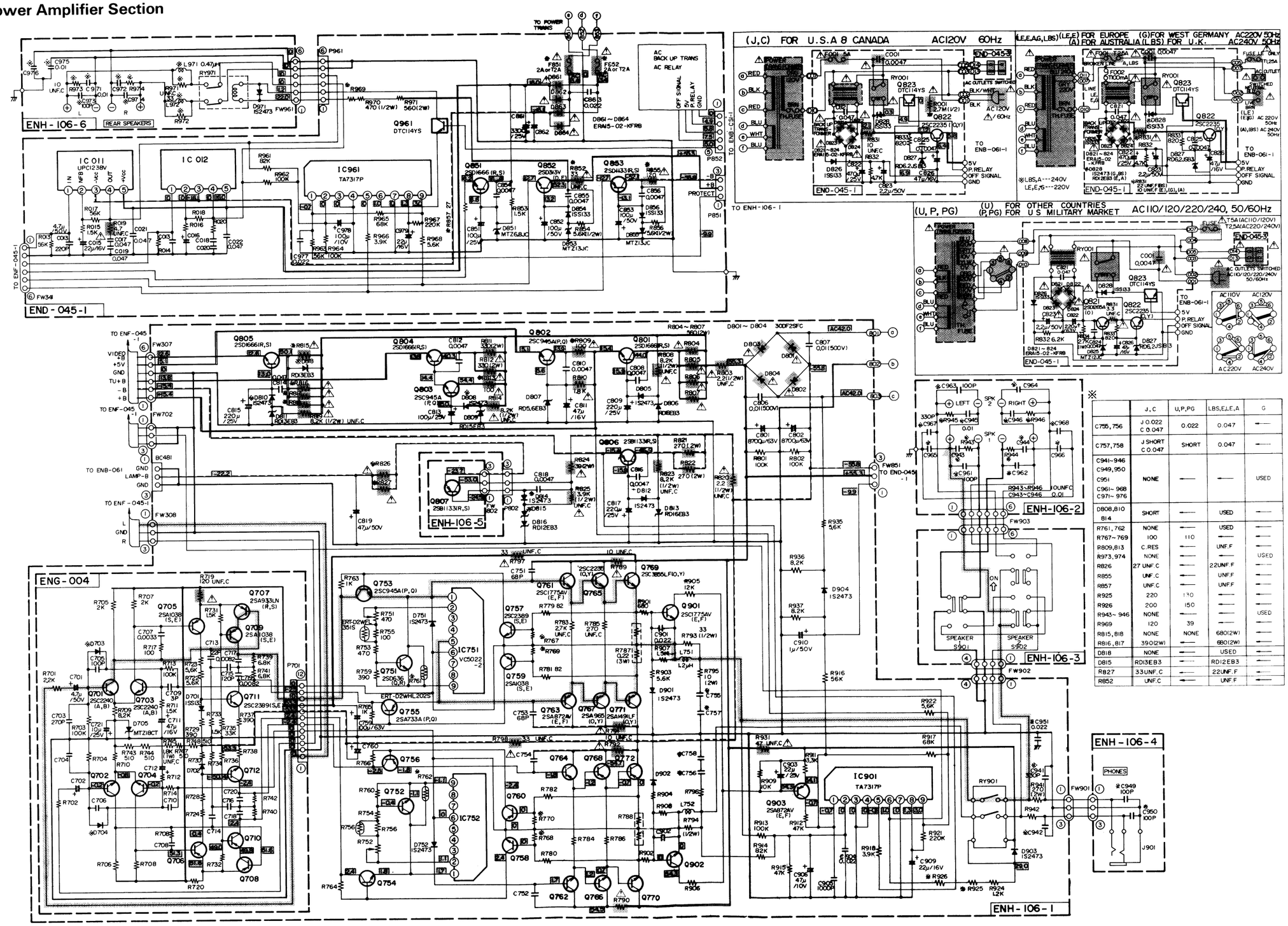

**Notes:**

1. ——— indicates +B power supply.
2. ····· indicates −B power supply.
3. ▒▒▒ indicates signal path.
4. ▒▒▒ / [ (▒▒▒) ] shows DC voltage to the chassis with no signal input.
   ▒▒▒ ...FM (▒▒▒) ...AM
5. When replacing the parts in the darkened area (▒▒▒) and those marked with , be sure to use the designated parts to ensure safety.
6. This is the standard circuit diagram.
   The design and contents are subject to change without notice.

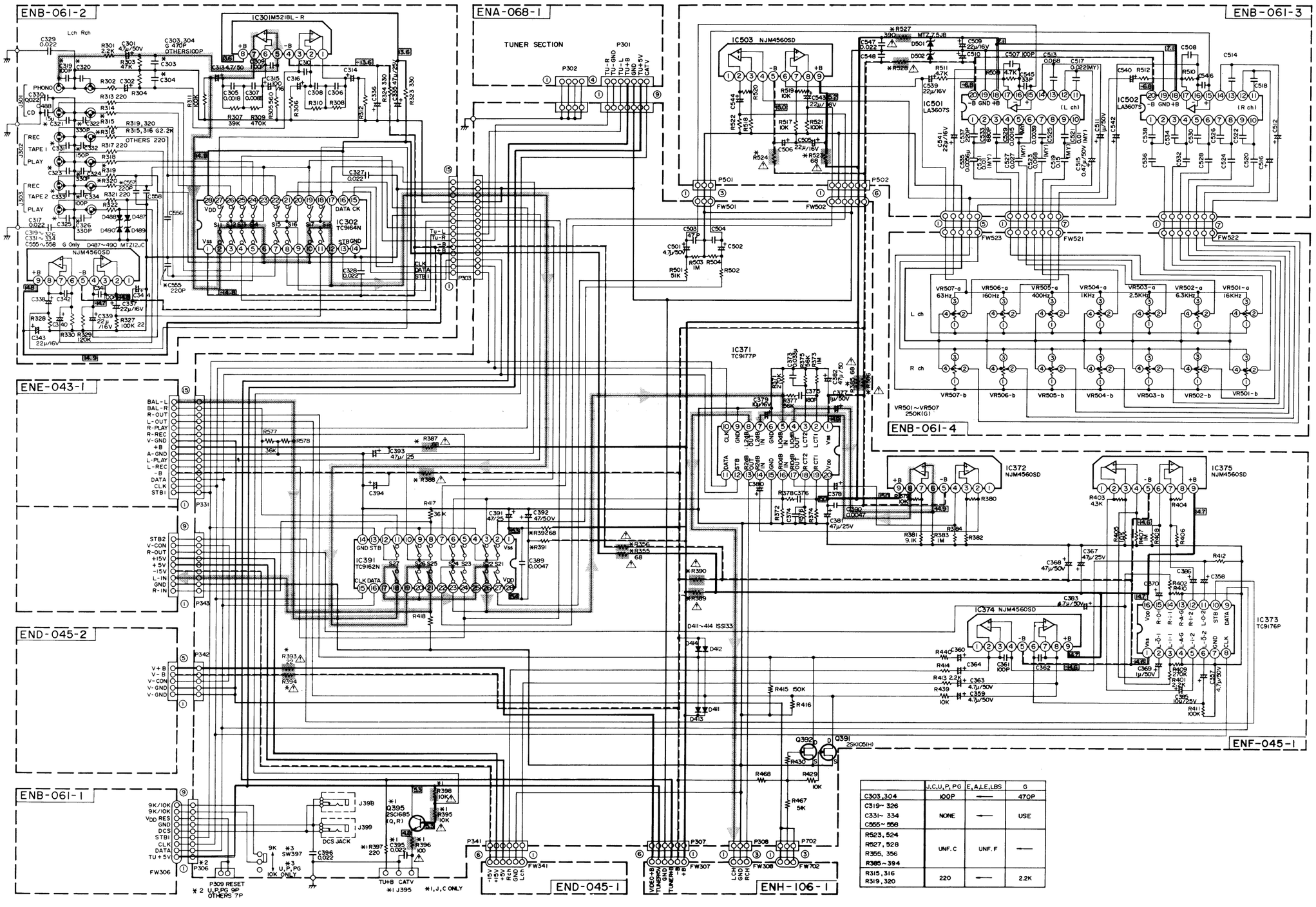
(No. 20055)

| | |
|---|---|
| RX-777VBK | RX-777VBK |
| RX-777VSBK | RX-777VSBK |
| RX-777VLBK | RX-777VLBK |

## (4) Power Amplifier Section

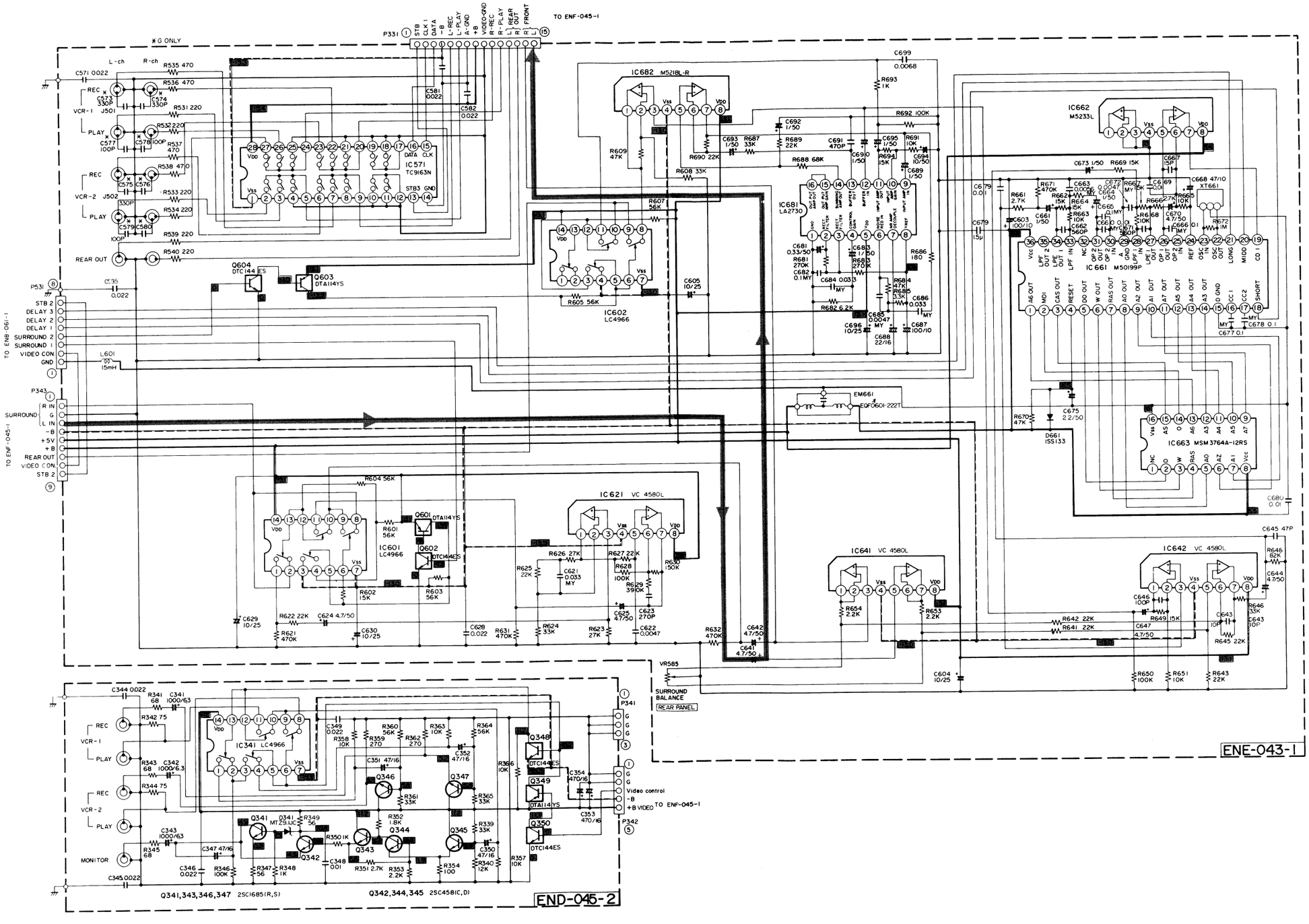

ENH-106-6
REAR SPEAKERS
END-045-1
ENG-004
ENH-106-5
ENH-106-1
ENH-106-2
ENH-106-3
ENH-106-4
END-045-3
(J,C) FOR U.S.A & CANADA AC120V 60Hz
(U, P, PG) (U) FOR OTHER COUNTRIES (P,PG) FOR U.S MILITARY MARKET AC110/120/220/240, 50/60Hz
IC011 UPC1238V
IC012
IC961 TA7317P
IC751 VC5022-2
IC752
IC901 TA7317P
Q961 DTC114YS
Q851 2SD1666(R,S)
Q852 2SD439(Y) (D,F)
Q853 2SD433(R,S)
Q805 2SD1666(R,S)
Q804 2SD1666(R,S)
Q803 2SC945A
Q802 2SC945A(P,Q)
Q801 2SD1666(R,S)
Q806 2SB1133(R,S)
Q807 2SB1133(R,S)
Q753 2SC945A(P,Q)
Q761 2SC1775AV (E,F)
Q757 2SC2389 (S,E)
Q759 2SA1038 (S,E)
Q755 2SA733A(P,Q)
Q763 2SA872AV (E,F)
Q767 2SA968 (O,Y)
Q771 2SA1491LF (O,Y)
Q765 2SC3855LF(O,Y)
Q707 2SA933LN (R,S)
Q705 2SA1038 (S,E)
Q709 2SA1038 (S,E)
Q701 2SC2240 (A,B)
Q703 2SC2240 (A,B)
Q711 2SC2389(S,E)
Q712
Q702
Q704
Q710
Q706
Q708
Q901 2SC1775AV (E,F)
Q903 2SA872AV (E,F)
Q902
Q766
Q762
Q770
Q754
Q752
Q756
Q760
Q758
Q768
Q772
Q764
Q822 2SC2235 (O,Y)
Q823 DTC114YS
D851 MTZ6.8JC
D852 MTZ13JC
D853 MTZ13JC
D801~D804 30DF2SFC
D851~D854 ERA15-02-KFRB
D821~824 ERA15-02-KFRB
D826 1SS133
D827 RD6.2JSB3
D828 1SS133
D901 1S2473
D902 1S2473
D903 1S2473
D904 1S2473
D905 1S2473
D751 1S2473
D752 1S2473
D807 RD5.6EB3
D809 RD15EB3
D810 RD3EB3
D811 RD3EB3
D812 1S2473
D813 RD16EB3
D814 RD12EB3
D815 RD12EB3
D816 RD12EB3
D818 RD3EB3
D820 1S2473
D822 1S2473
D823 1S2473
D824 1S2473
D827 RD6.2JSB3
D828 1SS133
D701 1SS133
D705 MTZ18CT
D703 0
D704 0
D802 1S2473
D803 1S2473
D804 1S2473
D805 1S2473
D806 RD5.6EB3
D808 RD15EB3
D809 RD15EB3
D810 1S2473
D811 RD3EB3
D812 1S2473
D813 RD16EB3
D814 RD12EB3
D815 RD12EB3
D816 RD12EB3
D820 1S2473
D822 1S2473
D823 1S2473
D824 1S2473
D827 RD6.2JSB3
D828 1SS133
D901 1S2473
D902 1S2473
D903 1S2473
D904 1S2473
D905 1S2473
D751 1S2473
D752 1S2473
D807 RD5.6EB3
D809 RD15EB3
D810 1S2473
D811 RD3EB3
D812 1S2473
D813 RD16EB3
D814 RD12EB3
D815 RD12EB3
D816 RD12EB3
D818 RD3

## (5) Source Selector and SEA Control Section




| | J, C, U, P, PG | E, A, L, E, LBS | G |
|---|---|---|---|
| C303, 304 | 100P | — | 470P |
| C319~326 | NONE | — | USE |
| C331~334 | | | |
| C555~558 | | | |
| R523, 524 | UNF. C | UNF. F | — |
| R527, 528 | | | |
| R355, 356 | | | |
| R385~394 | | | |
| R315, 316 | 220 | — | 2.2K |
| R319, 320 | | | |

## (6) Video Selector and Surround Section



# PARTS LIST

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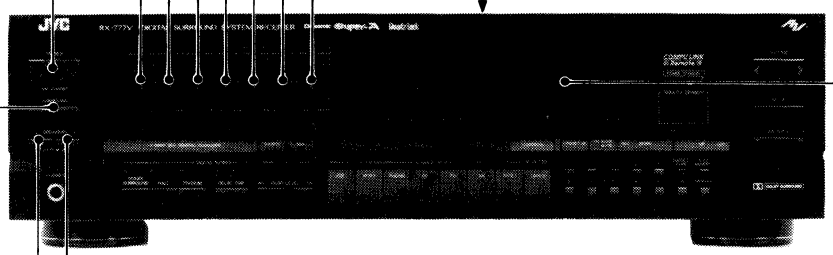
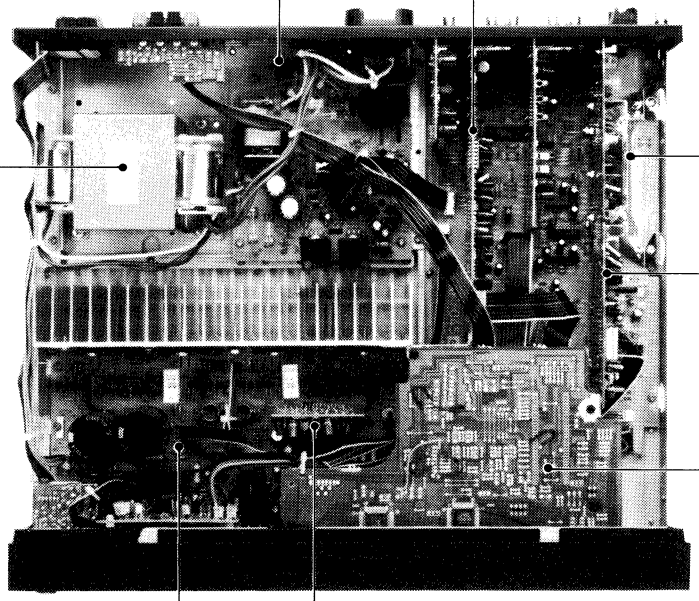
# Main Parts Location

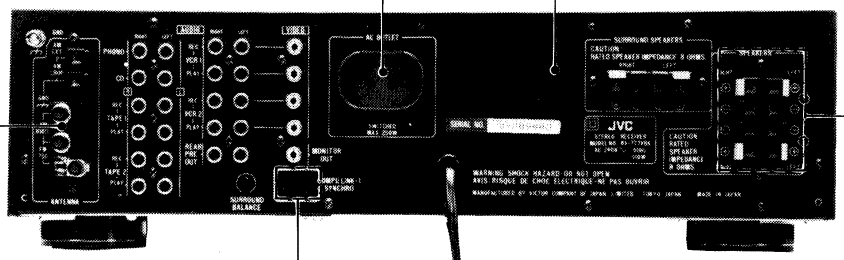
## ■ Front View




## ■ Top View

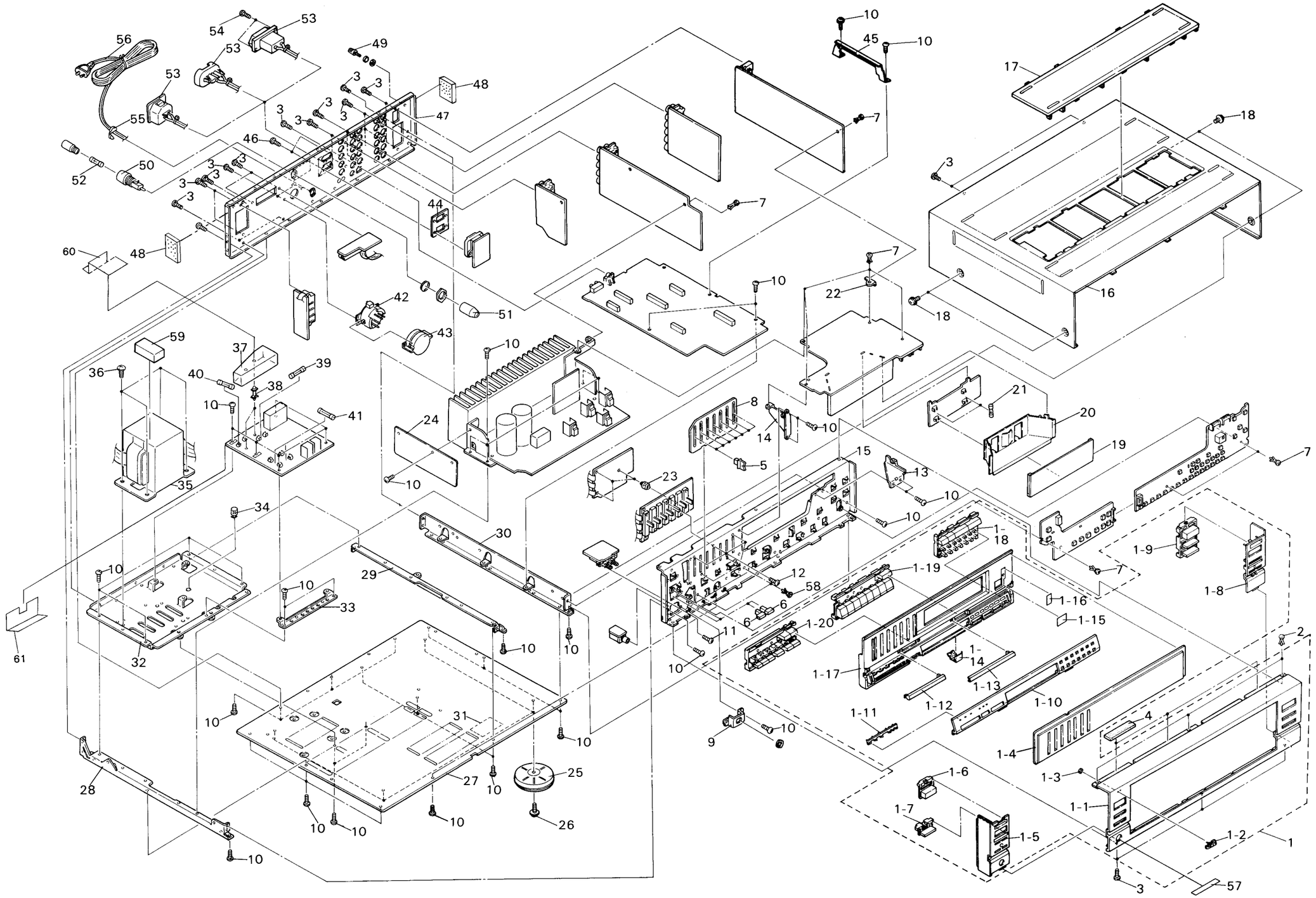



## ■ Rear View




⚠: Safety Parts

# Exploded View and Parts List



| RX-777VBK | RX-777VBK |
|---|---|
| RX-777VSBK | RX-777VSBK |
| RX-777VLBK | RX-777VLBK |

| ⚠ | Item | Part Number | Part Name | Q'ty | Description | Areas |
|---|---|---|---|---|---|---|
| | 1 | EFP-RX777VBKE | Front Panel Ass'y | 1 | | U,P,PG,E,EF,A,G |
| | | EFP-RX777VBKJ | Front Panel Ass'y | 1 | | J,C,SJ |
| | | EFP-RX777VLBKE | Front Panel Ass'y | 1 | | LE,LEF,LGI,LBS |
| | 1-1 | E25827-006 | Front Panel | 1 | | Except LE,LEF,LGI,LBS |
| | | E25827-007 | Front Panel | 1 | | LE,LEF,LGI,LBS |
| | 1-2 | E72968-001 | JVC Mark | 1 | | |
| | 1-3 | E60912-003 | Speed Nut | 1 | | |
| | 1-4 | E25832-002 | Window Screen | 1 | | |
| | 1-5 | E305058-001 | Side Escutchion | 1 | Left | |
| | 1-6 | E305078-001 | Push Button | 1 | Power | |
| | 1-7 | E74355-001 | Push Button | 1 | | |
| | 1-8 | E305059-001 | Side Escutchion | 1 | Right | |
| | 1-9 | E305056-002 | Volume Button | 1 | | |
| | 1-10 | E25839-002 | Sub Panel | 1 | | |
| | 1-11 | E74569-001 | Indicator | 1 | | |
| | 1-12 | E74566-002 | Cap | 1 | Left | |
| | 1-13 | E74568-001 | Cap | 1 | Center | |
| | 1-14 | E74883-001 | Earth Plate | 1 | | |
| | 1-15 | E72436-008 | Screen | 1 | | |
| | 1-16 | E72437-006 | Sheet | 1 | | |
| | 1-17 | E11598-005 | Front Base | 1 | | |
| | 1-18 | E25843-001 | Preset Button | 1 | | J,SJ,C |
| | | E25843-002 | Preset Button | 1 | | Except J,SJ,C |
| | 1-19 | E25830-001 | Source Button | 1 | | Except LE,LEF,LGI,LBS |
| | | E25830-002 | Source Button | 1 | | LE,LEF,LGI,LBS |
| | 1-20 | E25934-002 | Push Button | 1 | Surround | |
| | 2 | E48729-009 | Plastic Rivet | 3 | | |
| | 3 | SBSE3008M | Screw | 24 | | J,SJ,C,G,GI |
| | | SBSE3008M | Screw | 25 | | U,P,PG |
| | | SBSE3008M | Screw | 23 | | E,EF,A,LE,LEF,LBS |
| | 4 | EXO050005N25S02 | Felt Spacer | 3 | | |
| | 5 | E73847-002 | Slide Knob | 7 | Sea | |
| | 6 | E72790-001 | Push Knob | 2 | Speaker Switch | |
| | 7 | E48729-008 | Plastic Rivet | 10 | | |
| | 8 | E74451-001 | Sheet | 1 | Sea | |
| | 9 | E74448-001 | Head Phone Bracket | 1 | | |
| | 10 | SBSE3008CC | Screw | 45 | | |
| | 11 | SBST3006CC | Screw | 2 | | |
| | 12 | E70053-001 | Special Screw | 5 | | |
| | 13 | E74450-001 | Stay Bracket | 1 | Right | |
| | 14 | E73863-001 | Stay Bracket | 1 | Left | |
| | 15 | E11597-001 | Front Bracket | 1 | | |
| | 16 | E25937-002 | Metal Cover | 1 | | E,EF,LE,LEF,LGI,LBS |
| | | E25936-004 | Metal Cover | 1 | | J,SJ,C,U,P,PG,A,G |
| | 17 | E23862-005 | Grill | 1 | | E,EF,LE,LEF,LGI,LBS |
| | 18 | E61660-004 | Special Screw | 4 | | |
| | 19 | E73005-005 | Sheet | 1 | Source | |
| | 20 | E305054-001 | Lamp Holder | 1 | Source | |
| | 21 | ELP4101-003 | Fuse Lamp | 2 | Source PL401,PL402 | |
| | 22 | E74571-001 | Circuit Board Bracket | 1 | | |
| | 23 | E305399-001 | Fastener | 3 | Sea | |
| | 24 | E73937-001 | Sheet | 1 | | |
| | 25 | E74522-001 | Foot Ass'y | 4 | | |
| | 26 | GBST3008CC | Screw | 4 | Foot | |
| | 27 | E11663-001 | Bottom Plate | 1 | | |
| | 28 | E305234-001 | Side Bracket | 1 | Left | |
| | 29 | E305236-001 | Center Bracket | 1 | | |
| | 30 | E305235-001 | Side Bracket | 1 | Right | |
| | 31 | E70115-002 | Caution Label | 1 | | Except J,SJ |
| | | E70281-001 | Caution Label | 1 | | J,SJ |
| | 32 | E25881-001 | Trans Bracket | 1 | | |
| | 33 | E74570-001 | Sub Heat Sink Bracket | 1 | | |
| | 34 | E49383-002 | Fastener | 1 | | |
| ⚠ | 35 | ETP1150-22JA | Power Transformer | 1 | | J,SJ |
| ⚠ | | ETP1150-22CA | Power Transformer | 1 | | C |

⚠: Safety Parts



| ⚠ | Item | Part Number | Part Name | Q'ty | Description | Areas |
|---|---|---|---|---|---|---|
| ⚠ | | ETP1150-22FA | Power Transformer | 1 | | U,P,PG |
| ⚠ | | ETP1150-22EA | Power Transformer | 1 | | E,EF,A,G,LE,LEF,LGI |
| ⚠ | | ETP1150-22EABS | Power Transformer | 1 | | BS |
| | 36 | E65389-004 | Special Screw | 4 | | |
| | 37 | E305445-002 | Primary Cover | 1 | | Except J,SJ,C,U,P,PG |
| | 38 | E302321-001 | Fastener | 2 | | E,EF,A,G |
| | 39 | QMF51A2-2R5S | Fuse | 1 | F001 | Except J,SJ,C,P,LBS |
| | | QMF51U1-5R0S | Fuse | 1 | F001 | J,SJ,C,P |
| | | QMF51E2-2R5SBS | Fuse | 1 | F001 | LBS |
| | 40 | QMF51A2-R10S | Fuse | 1 | F002 | E,EF,A,G,LE,LEF,LGI |
| | | QMF51E2-R10SBS | Fuse | 1 | F002 | LBS |
| | 41 | QMF51A2-2R0S | Fuse | 2 | F851,F852 | Except J,SJ,C,LBS |
| | | QMF51U1-2R0 | Fuse | 2 | F851,F852 | J,SJ,C |
| | | QMF51E2-2R0SBS | Fuse | 2 | F851,F852 | LBS |
| | 42 | QSR0085-008U | Voltage Selector | 1 | | U,P,PG |
| | 43 | E302764-001 | Voltage Selector Cover | 1 | | U,P,PG |
| | 44 | E69589-008 | Spacer | 1 | | J,SJ |
| | 45 | E304771-001 | Earth Plate | 1 | | |
| | 46 | SDSB3008M | Screw | 2 | | J,SJ,C,U,P,PG |
| | 47 | E25938-009 | Rear Panel | 1 | | J,SJ,C |
| | | E25938-010 | Rear Panel | 1 | | U,P,PG |
| | | E25938-011 | Rear Panel | 1 | | E,EF |
| | | E25938-012 | Rear Panel | 1 | | A |
| | | E25938-013 | Rear Panel | 1 | | LE,LEF,LGI |
| | | E25938-014 | Rear Panel | 1 | | LBS |
| | | E25938-015 | Rear Panel | 1 | | G |
| | – | E303260-129 | Rating Label | 1 | | LE,LEF |
| | 48 | EXO085010R10S | Felt Spacer | 2 | | |
| | 49 | E70078-001 | GND. Terminal | 1 | | |
| | 50 | QMG0301-003 | Fuse Holder | 1 | | U,P,PG,LE,LEF |
| | 51 | E69291-001 | Fuse Cover | 1 | | U,P,PG,LE,LEF |
| ⚠ | 52 | QMF51A2-2R5S | Fuse | 1 | F003 | U,PG |
| ⚠ | | QMF51A2-5R0S | Fuse | 1 | F003 | P |
| ⚠ | | QMF51A2-1R25S | Fuse | 1 | F003 | LE,LEF |
| ⚠ | 53 | QMC0240-002 | AC Outlet | 1 | | E,EF,G,LE,LEF,LGI |
| ⚠ | | EMC0233-001 | AC Outlet | 1 | | A |
| ⚠ | | EMC0232-001BS | AC Outlet | 1 | | LBS |
| | 54 | SBSB3016M | Screw | 2 | | E,EF,G,LE,LEF,LGI |
| ⚠ | 55 | QHS3876-162 | Cord Stopper | 1 | | Except BS |
| ⚠ | | QHS3876-162BS | Cord Stopper | 1 | | BS |
| ⚠ | 56 | QMP1480-200 | Power Cord | 1 | | J,SJ,C |
| ⚠ | | QMP7600-200 | Power Cord | 1 | | U,P,PG |
| ⚠ | | QMP3900-200 | Power Cord | 1 | | E,EF,G,LE,LEF,LGI |
| ⚠ | | QMP2560-244 | Power Cord | 1 | | A |
| ⚠ | | QMP9017-008BS | Power Cord | 1 | | LBS |
| | 57 | E49267-001 | Origin Marking Label | 1 | | LBS |
| | 58 | E48729-007 | Plastic Rivet | 2 | | |
| | 59 | EXO050025N50S02 | Felt Spacer | 1 | | |
| | 60 | E74795-001 | Shield Plate | 1 | | A,G,E,EF,LE,LEF,LGI |
| | 61 | E74919-001 | Protect Sheet | 1 | | A,G,E,EF,LE,LEF,LGI |

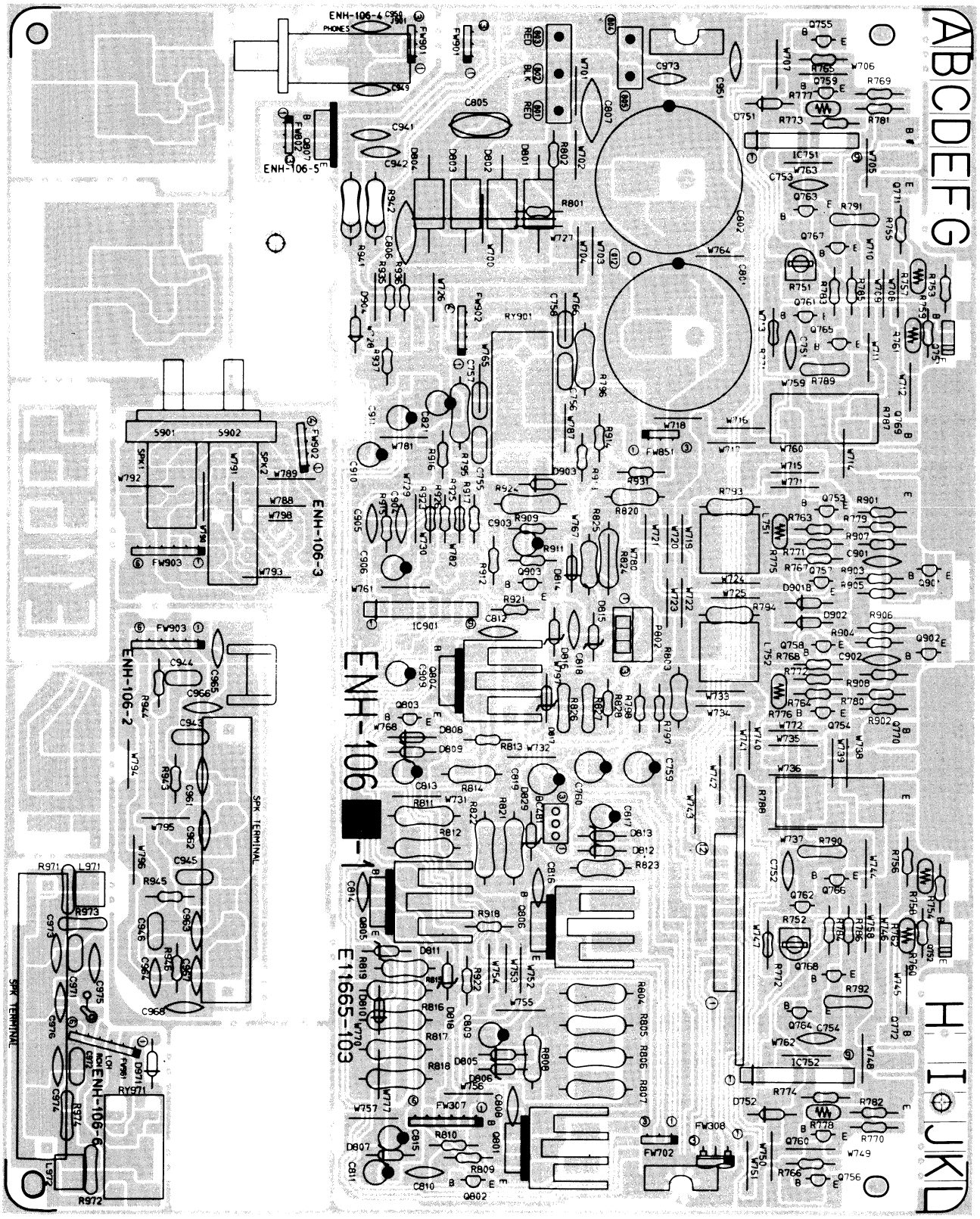
⚠: Safety Parts

| The Marks for Designated Areas | |
|---|---|
| J, SJ·····The U.S.A. | LE, LEF·····Continental Europe (with LW) |
| C·····Canada | LBS·····U.K. (with LW) |
| E, EF·····Continental Europe | LGI·····Italy (with LW) |
| A·····Australia | U·····Other Countries |
| G·····West Germany | No mark Indicates all areas. |
| P, PG·····U.S. Military Market | |

# Printed Circuit Board Ass'y and Parts List

## ■ ENH-106 ☐ Power Amplifier PC Board Ass'y

**Note:** ENH-106 ☐ varies according to the areas employed. See note (1) when placing an order.



### Note (1)

| PC Board Ass'y | Designated Areas |
|---|---|
| ENH-106 A | U.S.A. |
| ENH-106 B | Canada |
| ENH-106 C | U.S. Military Market & Other Countries |
| ENH-106 D | Continental Europe<br>Continental Europe (with LW),<br>Australia, Italy (with LW),<br>U.K. (with LW) |
| ENH-106 E | West Germany |

### Transistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | Q751 | 2SD636(Q,R) | SILICON | MATSUSHITA | |
| | Q752 | 2SD636(Q,R) | SILICON | MATSUSHITA | |
| | Q753 | 2SC945A(P,Q) | SILICON | NEC | |
| | Q754 | 2SC945A(P,Q) | SILICON | NEC | |
| | Q755 | 2SA733A(P,Q) | SILICON | NEC | |
| | Q756 | 2SA733A(P,Q) | SILICON | NEC | |
| | Q757 | 2SC2389(S,E) | SILICON | ROHM | |
| | Q758 | 2SC2389(S,E) | SILICON | ROHM | |
| | Q759 | 2SA1038(S,E) | SILICON | ROHM | |
| | Q760 | 2SA1038(S,E) | SILICON | ROHM | |
| | Q761 | 2SC1775AV(E) | SILICON | HITACHI | |
| | Q762 | 2SC1775AV(E) | SILICON | HITACHI | |
| | Q763 | 2SA872AV(E) | SILICON | HITACHI | |
| | Q764 | 2SA872AV(E) | SILICON | HITACHI | |
| | Q765 | 2SC2235(O,Y) | SILICON | TOSHIBA | |
| | Q766 | 2SC2235(O,Y) | SILICON | TOSHIBA | |
| | Q767 | 2SA965(O,Y) | SILICON | TOSHIBA | |
| | Q768 | 2SA965(O,Y) | SILICON | TOSHIBA | |
| | Q769 | 2SC3855LF(O,Y) | SILICON | SANKEN | |
| | Q770 | 2SC3855LF(O,Y) | SILICON | SANKEN | |
| | Q771 | 2SA1491LF(O,Y) | SILICON | SANKEN | |
| | Q772 | 2SA1491LF(O,Y) | SILICON | SANKEN | |
| | Q801 | 2SD1666(R,S) | SILICON | SANYO | |
| | Q802 | 2SC945A(P,Q) | SILICON | NEC | |
| | Q803 | 2SC945A(P,Q) | SILICON | NEC | |
| | Q804 | 2SD1666(R,S) | SILICON | SANYO | |
| | Q805 | 2SD1666(R,S) | SILICON | SANYO | |
| | Q806 | 2SB1133(R,S) | SILICON | SANYO | |
| | Q807 | 2SB1133(R,S) | SILICON | SANYO | |
| | Q901 | 2SC1775AV(E,F) | SILICON | HITACHI | |
| | Q902 | 2SC1775AV(E,F) | SILICON | HITACHI | |
| | Q903 | 2SA872AV(E,F) | SILICON | HITACHI | |

⚠ : SAFETY PARTS

### I.C.s

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | IC751 | VC5022-2 | I.C. | SANYO | |
| | IC752 | VC5022-2 | I.C. | SANYO | |
| | IC901 | TA7317P | I.C. | TOSHIBA | |

⚠ : SAFETY PARTS

### Diodes

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | D751 | 1S2473 | SILICON | ROHM | |
| | D752 | 1S2473 | SILICON | ROHM | |
| | D801 | 30DF2SFC | SILICON | NIHONINTER | |
| | D802 | 30DF2SFC | SILICON | NIHONINTER | |
| | D803 | 30DF2SFC | SILICON | NIHONINTER | |
| | D804 | 30DF2SFC | SILICON | NIHONINTER | |
| | D805 | 1S2473 | SILICON | ROHM | |
| | D806 | RD16EB3 | ZENER | NEC | |
| | D807 | RD5.6EB3 | ZENER | NEC | |
| | D808 | 1S2473 | SILICON | ROHM | D |

⚠ : SAFETY PARTS

### Diodes

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | D808 | 1S2473 | SILICON | ROHM | E |
| | D809 | RD15EB3 | ZENER | NEC | |
| | D810 | 1S2473 | SILICON | ROHM | D |
| | D810 | 1S2473 | SILICON | ROHM | E |
| | D811 | RD13EB3 | ZENER | NEC | |
| | D812 | 1S2473 | SILICON | ROHM | |
| | D813 | RD16EB3 | ZENER | NEC | |
| | D814 | 1S2473 | SILICON | ROHM | D |
| | D814 | 1S2473 | SILICON | ROHM | E |
| | D815 | RD12EB3 | ZENER | NEC | D |
| | D815 | RD12EB3 | ZENER | NEC | E |
| | D815 | RD13EB3 | ZENER | NEC | A |
| | D815 | RD13EB3 | ZENER | NEC | B |
| | D815 | RD13EB3 | ZENER | NEC | C |
| | D816 | RD12EB3 | ZENER | NEC | |
| | D818 | RD13EB3 | ZENER | NEC | D |
| | D818 | RD13EB3 | ZENER | NEC | E |
| | D901 | 1S2473 | SILICON | ROHM | |
| | D902 | 1S2473 | SILICON | ROHM | |
| | D903 | 1S2473 | SILICON | ROHM | |
| | D904 | 1S2473 | SILICON | ROHM | |
| | D971 | 1S2473 | SILICON | ROHM | |

⚠ : SAFETY PARTS

### Capacitors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | C751 | QCS21HJ-680 | 68PF | 50V | CERAMIC | |
| | C752 | QCS21HJ-680 | 68PF | 50V | CERAMIC | |
| | C753 | QCS21HJ-680 | 68PF | 50V | CERAMIC | |
| | C754 | QCS21HJ-680 | 68PF | 50V | CERAMIC | |
| | C755 | QFN81HK-223 | 0.022MF | 50V | MYLAR | A |
| | C755 | QFN81HK-223 | 0.022MF | 50V | MYLAR | C |
| | C755 | QFN81HK-473 | 0.047MF | 50V | MYLAR | B |
| | C755 | QFN81HK-473 | 0.047MF | 50V | MYLAR | D |
| | C755 | QFN81HK-473 | 0.047MF | 50V | MYLAR | E |
| | C756 | QFN81HK-223 | 0.022MF | 50V | MYLAR | A |
| | C756 | QFN81HK-223 | 0.022MF | 50V | MYLAR | C |
| | C756 | QFN81HK-473 | 0.047MF | 50V | MYLAR | B |
| | C756 | QFN81HK-473 | 0.047MF | 50V | MYLAR | D |
| | C756 | QFN81HK-473 | 0.047MF | 50V | MYLAR | E |
| | C757 | QFN81HK-473 | 0.047MF | 50V | MYLAR | B |
| | C757 | QFN81HK-473 | 0.047MF | 50V | MYLAR | D |
| | C757 | QFN81HK-473 | 0.047MF | 50V | MYLAR | E |
| | C758 | QFN81HK-473 | 0.047MF | 50V | MYLAR | B |
| | C758 | QFN81HK-473 | 0.047MF | 50V | MYLAR | D |
| | C758 | QFN81HK-473 | 0.047MF | 50V | MYLAR | E |
| | C759 | QETB1JM-107 | 100MF | 63V | ELECTRO | |
| | C760 | QETB1JM-107 | 100MF | 63V | ELECTRO | |
| | C801 | EEW6308-878E | 8700MF | | ELECTRO | |
| | C802 | EEW6308-878E | 8700MF | | ELECTRO | |
| | C806 | QCE22HP-103 | 0.01MF | 500V | CERAMIC | |
| | C807 | QCE22HP-103 | 0.01MF | 500V | CERAMIC | |
| | C808 | QCF21HP-472 | 4700PF | 50V | CERAMIC | |
| | C809 | QETB1EM-227 | 220MF | 25V | ELECTRO | |
| | C810 | QCF21HP-472 | 4700PF | 50V | CERAMIC | |
| | C811 | QETB1CM-476 | 47MF | 16V | ELECTRO | |
| | C812 | QCF21HP-472 | 4700PF | 50V | CERAMIC | |
| | C813 | QETB1EM-107 | 100MF | 25V | ELECTRO | |
| | C814 | QCF21HP-472 | 4700PF | 50V | CERAMIC | |
| | C815 | QETB1EM-227 | 220MF | 25V | ELECTRO | |
| | C816 | QCF21HP-472 | 4700PF | 50V | CERAMIC | |
| | C817 | QETB1EM-227 | 220MF | 25V | ELECTRO | |
| | C818 | QCF21HP-472 | 4700PF | 50V | CERAMIC | |
| | C819 | QETB1HM-476 | 47MF | 50V | ELECTRO | |
| | C901 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C902 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C903 | QETB1HM-226 | 22MF | 50V | ELECTRO | |
| | C904 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C905 | QCY21HK-102 | 1000PF | 50V | CERAMIC | |
| | C906 | QEK61EM-476 | 47MF | 25V | ELECTRO | |
| | C909 | QETB1CM-226 | 22MF | 16V | ELECTRO | |
| | C910 | QEK61HM-105G | 1MF | 50V | ELECTRO | |
| | C941 | QCS21HJ-331 | 330PF | 50V | CERAMIC | E |
| | C942 | QCS21HJ-331 | 330PF | 50V | CERAMIC | E |
| | C943 | QFN81HK-103 | 0.01MF | 50V | MYLAR | E |
| | C944 | QFN81HK-103 | 0.01MF | 50V | MYLAR | E |
| | C945 | QFN81HK-103 | 0.01MF | 50V | MYLAR | E |
| | C946 | QFN81HK-103 | 0.01MF | 50V | MYLAR | E |
| | C949 | QCS21HJ-101 | 100PF | 50V | CERAMIC | E |
| | C950 | QCS21HJ-101 | 100PF | 50V | CERAMIC | E |
| | C951 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | E |

⚠ : SAFETY PARTS

## Capacitors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | C961 | QCS21HJ-101 | 100PF | 50V | CERAMIC | E |
| | C962 | QCS21HJ-101 | 100PF | 50V | CERAMIC | E |
| | C963 | QCS21HJ-101 | 100PF | 50V | CERAMIC | E |
| | C964 | QCS21HJ-101 | 100PF | 50V | CERAMIC | E |
| | C965 | QCS21HJ-331 | 330PF | 50V | CERAMIC | E |
| | C966 | QCS21HJ-331 | 330PF | 50V | CERAMIC | E |
| | C967 | QCS21HJ-331 | 330PF | 50V | CERAMIC | E |
| | C968 | QCS21HJ-331 | 330PF | 50V | CERAMIC | E |
| | C971 | QFN81HK-103 | 0.01MF | 50V | MYLAR | E |
| | C972 | QFN81HK-103 | 0.01MF | 50V | MYLAR | E |
| | C973 | QCS21HJ-101 | 100PF | 50V | CERAMIC | E |
| | C974 | QCS21HJ-101 | 100PF | 50V | CERAMIC | E |
| | C975 | QCF21HP-103 | 0.01MF | 50V | CERAMIC | E |
| | C976 | QCF21HP-103 | 0.01MF | 50V | CERAMIC | E |

⚠ : SAFETY PARTS

## Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | R751 | QVZ3518-471 | 470 | 0.1W | VARIABLE | |
| | R752 | QVZ3518-471 | 470 | 0.1W | VARIABLE | |
| | R753 | QRD148J-471S | 470 | 1/4W | CARBON | |
| | R754 | QRD148J-471S | 470 | 1/4W | CARBON | |
| | R755 | QRD148J-101S | 100 | 1/4W | CARBON | |
| | R756 | QRD148J-101S | 100 | 1/4W | CARBON | |
| | R757 | ERT-D2WFL351S | 350 | 1/4W | THERMISTOR | |
| | R758 | ERT-D2WFL351S | 350 | 1/4W | THERMISTOR | |
| | R759 | QRD148J-391S | 390 | 1/4W | CARBON | |
| | R760 | QRD148J-391S | 390 | 1/4W | CARBON | |
| | R761 | ERT-D2WHL202S | 2K | 1/4W | THERMISTOR | D |
| | R761 | ERT-D2WHL202S | 2K | 1/4W | THERMISTOR | E |
| | R762 | ERT-D2WHL202S | 2K | 1/4W | THERMISTOR | D |
| | R762 | ERT-D2WHL202S | 2K | 1/4W | THERMISTOR | E |
| | R763 | QRD148J-102S | 1K | 1/4W | CARBON | |
| | R764 | QRD148J-102S | 1K | 1/4W | CARBON | |
| | R765 | QRD148J-102S | 1K | 1/4W | CARBON | |
| | R766 | QRD148J-102S | 1K | 1/4W | CARBON | |
| | R767 | QRD148J-820S | 82 | 1/4W | CARBON | |
| | R768 | QRD148J-820S | 82 | 1/4W | CARBON | |
| | R769 | QRD148J-820S | 82 | 1/4W | CARBON | |
| | R770 | QRD148J-820S | 82 | 1/4W | CARBON | |
| | R779 | QRD148J-121S | 120 | 1/4W | CARBON | |
| | R780 | QRD148J-121S | 120 | 1/4W | CARBON | |
| | R781 | QRD148J-121S | 120 | 1/4W | CARBON | |
| | R782 | QRD148J-121S | 120 | 1/4W | CARBON | |
| ⚠ | R783 | QRD145J-272S | 2.7K | 1/4W | UNF.CARBON | |
| ⚠ | R784 | QRD145J-272S | 2.7K | 1/4W | UNF.CARBON | |
| ⚠ | R785 | QRD145J-271S | 270 | 1/4W | UNF.CARBON | |
| ⚠ | R786 | QRD145J-271S | 270 | 1/4W | UNF.CARBON | |
| ⚠ | R787 | ERF032K-R22 | 0.22 | 3W | CEMENT | |
| ⚠ | R788 | ERF032K-R22 | 0.22 | 3W | CEMENT | |
| ⚠ | R789 | QRD14CJ-100S | 10 | 1/4W | UNF.CARBON | |
| ⚠ | R790 | QRD14CJ-100S | 10 | 1/4W | UNF.CARBON | |
| ⚠ | R791 | QRD14CJ-100S | 10 | 1/4W | UNF.CARBON | |
| ⚠ | R792 | QRD14CJ-100S | 10 | 1/4W | UNF.CARBON | |
| ⚠ | R793 | QRD125J-330 | 33 | 1/2W | UNF.CARBON | |
| ⚠ | R794 | QRD125J-330 | 33 | 1/2W | UNF.CARBON | |
| ⚠ | R795 | QRG022J-100A | 10 | 2W | O.M.FILM | |
| ⚠ | R796 | QRG022J-100A | 10 | 2W | O.M.FILM | |
| ⚠ | R797 | QRD145J-330S | 33 | 1/4W | UNF.CARBON | |
| ⚠ | R798 | QRD145J-330S | 33 | 1/4W | UNF.CARBON | |
| | R801 | QRD148J-104S | 100K | 1/4W | CARBON | |
| | R802 | QRD148J-104S | 100K | 1/4W | CARBON | |
| ⚠ | R803 | QRD125J-2R2 | 2.2 | 1/2W | UNF.CARBON | |
| ⚠ | R804 | QRG022J-561A | 560 | 2W | O.M.FILM | |
| ⚠ | R805 | QRG022J-561A | 560 | 2W | O.M.FILM | |
| ⚠ | R806 | QRG022J-561A | 560 | 2W | O.M.FILM | |
| ⚠ | R807 | QRG022J-561A | 560 | 2W | O.M.FILM | |
| ⚠ | R808 | QRD125J-822 | 8.2K | 1/2W | UNF.CARBON | |
| ⚠ | R809 | QRD145J-101S | 100 | 1/4W | UNF.CARBON | A |
| ⚠ | R809 | QRD145J-101S | 100 | 1/4W | UNF.CARBON | B |
| ⚠ | R809 | QRD145J-101S | 100 | 1/4W | UNF.CARBON | C |
| ⚠ | R809 | QRZ0062-101 | 100 | 1/4W | FUSIBLE | D |
| ⚠ | R809 | QRZ0062-101 | 100 | 1/4W | FUSIBLE | E |
| | R810 | QRD148J-182S | 1.8K | 1/4W | CARBON | |
| ⚠ | R811 | QRG022J-331A | 330 | 2W | O.M.FILM | A |
| ⚠ | R811 | QRG022J-331A | 330 | 2W | O.M.FILM | B |
| ⚠ | R811 | QRG022J-331A | 330 | 2W | O.M.FILM | C |
| ⚠ | R811 | QRG026J-331AF | 330 | 2W | O.M.FILM | D |
| ⚠ | R811 | QRG026J-331AF | 330 | 2W | O.M.FILM | E |
| ⚠ | R812 | QRG022J-331A | 330 | 2W | O.M.FILM | A |
| ⚠ | R812 | QRG022J-331A | 330 | 2W | O.M.FILM | B |
| ⚠ | R812 | QRG022J-331A | 330 | 2W | O.M.FILM | C |
| ⚠ | R812 | QRG026J-331AF | 330 | 2W | O.M.FILM | D |

⚠ : SAFETY PARTS

## Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| ⚠ | R812 | QRG026J-331AF | 330 | 2W | O.M.FILM | E |
| ⚠ | R813 | QRD145J-101S | 100 | 1/4W | UNF.CARBON | A |
| ⚠ | R813 | QRD145J-101S | 100 | 1/4W | UNF.CARBON | B |
| ⚠ | R813 | QRD145J-101S | 100 | 1/4W | UNF.CARBON | C |
| ⚠ | R813 | QRZ0062-101 | 100 | 1/4W | FUSIBLE | D |
| ⚠ | R813 | QRZ0062-101 | 100 | 1/4W | FUSIBLE | E |
| ⚠ | R814 | QRD125J-822 | 8.2K | 1/2W | UNF.CARBON | |
| ⚠ | R815 | QRG022J-681A | 680 | 2W | O.M.FILM | D |
| ⚠ | R815 | QRG022J-681A | 680 | 2W | O.M.FILM | E |
| ⚠ | R816 | QRG022J-391A | 390 | 2W | O.M.FILM | A |
| ⚠ | R816 | QRG022J-391A | 390 | 2W | O.M.FILM | B |
| ⚠ | R816 | QRG022J-391A | 390 | 2W | O.M.FILM | C |
| ⚠ | R816 | QRG022J-681A | 680 | 2W | O.M.FILM | D |
| ⚠ | R816 | QRG022J-681A | 680 | 2W | O.M.FILM | E |
| ⚠ | R817 | QRG022J-391A | 390 | 2W | O.M.FILM | A |
| ⚠ | R817 | QRG022J-391A | 390 | 2W | O.M.FILM | B |
| ⚠ | R817 | QRG022J-391A | 390 | 2W | O.M.FILM | C |
| ⚠ | R817 | QRG022J-681A | 680 | 2W | O.M.FILM | D |
| ⚠ | R817 | QRG022J-681A | 680 | 2W | O.M.FILM | E |
| ⚠ | R818 | QRG022J-681A | 680 | 2W | O.M.FILM | D |
| ⚠ | R818 | QRG022J-681A | 680 | 2W | O.M.FILM | E |
| ⚠ | R819 | QRD125J-822 | 8.2K | 1/2W | UNF.CARBON | |
| ⚠ | R820 | QRD125J-2R2 | 2.2 | 1/2W | UNF.CARBON | |
| ⚠ | R821 | QRG022J-271A | 270 | 2W | O.M.FILM | |
| ⚠ | R822 | QRG022J-271A | 270 | 2W | O.M.FILM | |
| ⚠ | R823 | QRD125J-822 | 8.2K | 1/2W | UNF.CARBON | |
| ⚠ | R824 | QRG022J-390A | 39 | 2W | O.M.FILM | |
| ⚠ | R825 | QRD125J-392 | 3.9K | 1/2W | UNF.CARBON | |
| ⚠ | R826 | QRD14CJ-270S | 27 | 1/4W | UNF.CARBON | A |
| ⚠ | R826 | QRD14CJ-270S | 27 | 1/4W | UNF.CARBON | B |
| ⚠ | R826 | QRD14CJ-270S | 27 | 1/4W | UNF.CARBON | C |
| ⚠ | R826 | QRZ0077-220 | 22 | 1/4W | FUSIBLE | D |
| ⚠ | R826 | QRZ0077-220 | 22 | 1/4W | FUSIBLE | E |
| ⚠ | R827 | QRD14CJ-330S | 33 | 1/4W | UNF.CARBON | A |
| ⚠ | R827 | QRD14CJ-330S | 33 | 1/4W | UNF.CARBON | B |
| ⚠ | R827 | QRD14CJ-330S | 33 | 1/4W | UNF.CARBON | C |
| ⚠ | R827 | QRZ0077-220 | 22 | 1/4W | FUSIBLE | D |
| ⚠ | R827 | QRZ0077-220 | 22 | 1/4W | FUSIBLE | E |
| | R901 | QRD148J-681S | 680 | 1/4W | CARBON | |
| | R902 | QRD148J-681S | 680 | 1/4W | CARBON | |
| | R903 | QRD148J-562S | 5.6K | 1/4W | CARBON | |
| | R904 | QRD148J-562S | 5.6K | 1/4W | CARBON | |
| | R905 | QRD148J-123S | 12K | 1/4W | CARBON | |
| | R906 | QRD148J-123S | 12K | 1/4W | CARBON | |
| | R907 | QRD148J-152S | 1.5K | 1/4W | CARBON | |
| | R908 | QRD148J-152S | 1.5K | 1/4W | CARBON | |
| | R909 | QRD148J-103S | 10K | 1/4W | CARBON | |
| | R911 | QRD148J-332S | 3.3K | 1/4W | CARBON | |
| | R912 | QRD148J-473S | 47K | 1/4W | CARBON | |
| | R913 | QRD148J-104S | 100K | 1/4W | CARBON | |
| | R914 | QRD148J-823S | 82K | 1/4W | CARBON | |
| | R915 | QRD148J-473S | 47K | 1/4W | CARBON | |
| | R916 | QRD148J-563S | 56K | 1/4W | CARBON | |
| | R917 | QRD148J-683S | 68K | 1/4W | CARBON | |
| | R918 | QRD148J-392S | 3.9K | 1/4W | CARBON | |
| | R921 | QRD148J-224S | 220K | 1/4W | CARBON | |
| | R922 | QRD148J-562S | 5.6K | 1/4W | CARBON | |
| ⚠ | R924 | QRG022J-122A | 1.2K | 2W | O.M.FILM | |
| | R925 | QRD148J-131S | 130 | 1/4W | CARBON | C |
| | R925 | QRD148J-131S | 130 | 1/4W | CARBON | D |
| | R925 | QRD148J-131S | 130 | 1/4W | CARBON | E |
| | R925 | QRD148J-221S | 220 | 1/4W | CARBON | A |
| | R925 | QRD148J-221S | 220 | 1/4W | CARBON | B |
| | R926 | QRD148J-151S | 150 | 1/4W | CARBON | C |
| | R926 | QRD148J-151S | 150 | 1/4W | CARBON | D |
| | R926 | QRD148J-151S | 150 | 1/4W | CARBON | E |
| | R926 | QRD148J-201S | 200 | 1/4W | CARBON | A |
| | R926 | QRD148J-201S | 200 | 1/4W | CARBON | B |
| ⚠ | R931 | QRD145J-470S | 47 | 1/4W | UNF.CARBON | |
| | R935 | QRD148J-562S | 5.6K | 1/4W | CARBON | |
| | R936 | QRD148J-822S | 8.2K | 1/4W | CARBON | |
| | R937 | QRD148J-822S | 8.2K | 1/4W | CARBON | |
| ⚠ | R941 | QRG022J-271A | 270 | 2W | O.M.FILM | |
| ⚠ | R942 | QRG022J-271A | 270 | 2W | O.M.FILM | |
| ⚠ | R943 | QRD145J-100S | 10 | 1/4W | UNF.CARBON | E |
| ⚠ | R944 | QRD145J-100S | 10 | 1/4W | UNF.CARBON | E |
| ⚠ | R945 | QRD145J-100S | 10 | 1/4W | UNF.CARBON | E |
| ⚠ | R946 | QRD145J-100S | 10 | 1/4W | UNF.CARBON | E |
| ⚠ | R971 | QRD14CJ-330S | 33 | 1/4W | UNF.CARBON | |
| ⚠ | R972 | QRD14CJ-330S | 33 | 1/4W | UNF.CARBON | |
| ⚠ | R973 | QRD14CJ-100S | 10 | 1/4W | UNF.CARBON | E |
| ⚠ | R974 | QRD14CJ-100S | 10 | 1/4W | UNF.CARBON | E |

⚠ : SAFETY PARTS

### Others

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|---|---|---|---|
| | | EMB90TV-801A | SPEAKER TERMINAL | |
| | | EMB90YV-401A | SPEAKER TERMINAL | |
| | | E11665-103 | CIRCUIT BOARD | A |
| | | E11665-103 | CIRCUIT BOARD | B |
| | | E11665-103 | CIRCUIT BOARD | C |
| | | E11665-103 | CIRCUIT BOARD | D |
| | | E11665-103 | CIRCUIT BOARD | E |
| | | E304655-003 | HEAT SINK | |
| | | E305265-001 | BRACKET | |
| | | E305266-001 | BRACKET | |
| | | E65654-001 | SPACER | D |
| | | E65654-001 | SPACER | E |
| | | E67764-103 | WRAPPING TERMINAL | |
| | | E70225-001 | EARTH PLATE | E |
| | | E70859-001 | EARTH PLATE | |
| | | E70945-H25B | HEAT SINK | |
| | | E70945-H25B | HEAT SINK | |
| | | E70945-H25B | HEAT SINK | |
| | | E70945-H25B | HEAT SINK | |
| | | E73525-001 | SCREW | |
| | | SBSB3012CC | SCREW | |
| | | SBSB3012CC | SCREW | |
| | | SBSB3012CC | SCREW | |
| | | SBSB3012CC | SCREW | |
| | | SBSB3012CC | SCREW | |
| | | SBSE3008CC | SCREW | |
| | J901 | QMS6A40-021 | HEADPHONE JACK | |
| | L751 | EQL0101-1R2 | INDUCTOR | |
| | L752 | EQL0101-1R2 | INDUCTOR | |
| | L971 | EQL0001-R45 | INDUCTOR | |

⚠ : SAFETY PARTS

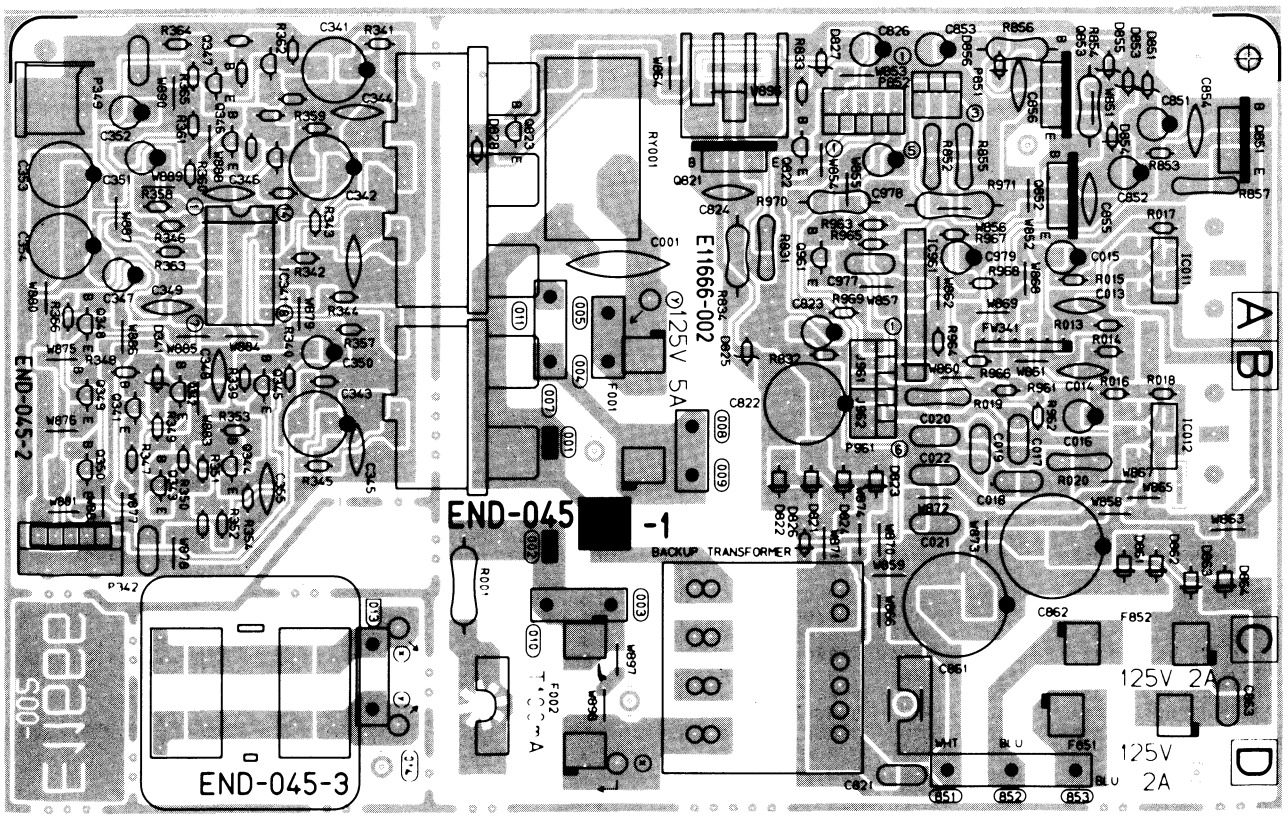
### Others

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|---|---|---|---|
| | L972 | EQL0001-R45 | INDUCTOR | |
| | P339 | EWS013-257 | SOCKET WIRE | |
| | P802 | EMV7112-003 | CONNECTOR | |
| | S901 | QST4231-E01 | PUSH SWITCH | |
| | BC481 | EWS013-242 | SOCKET WIRE | |
| | FW307 | EWR36B-25KST | FLAT WIRE | |
| | FW308 | EWR23C-30JN | FLAT WIRE | |
| | FW702 | EWR33B-35LST | FLAT WIRE | |
| | FW802 | EWR33B-13KST | FLAT WIRE | |
| | FW851 | EWR33B-55LST | FLAT WIRE | |
| | FW901 | EWR33B-08SST | FLAT WIRE | |
| | FW902 | EWR34B-16SST | FLAT WIRE | |
| | FW903 | EWR36B-35SST | FLAT WIRE | |
| | FW961 | EWR36B-20LST | FLAT WIRE | |
| | RY901 | ESK5D24-218 | RELAY | |
| | RY971 | ESK8D24-212 | RELAY | |

⚠ : SAFETY PARTS

## ■ END-045 ☐ AC. Rear Amplifier. Video PC Board Ass'y

**Note:** END-045 ☐ varies according to the areas employed. See note (1) when placing an order.



### Note (1)

| PC Board Ass'y | Designated Areas |
|---|---|
| END-045 A | U.S.A. |
| END-045 B | Canada |
| END-045 C | U.S. Military Market & Other Countries |
| END-045 D | Continental Europe, Italy (with LW), Continental Europe (with LW) |
| END-045 E BS | U.K. (with LW) |
| END-045 F | Australia |
| END-045 G | West Germany |

### Transistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | Q341 | 2SC1685(R,S) | SILICON | MATSUSHITA | |
| | Q342 | 2SC458(C,D) | SILICON | HITACHI | |
| | Q343 | 2SC1685(R,S) | SILICON | MATSUSHITA | |
| | Q344 | 2SC458(C,D) | SILICON | HITACHI | |
| | Q345 | 2SC458(C,D) | SILICON | HITACHI | |
| | Q346 | 2SC1685(R,S) | SILICON | MATSUSHITA | |
| | Q347 | 2SC1685(R,S) | SILICON | MATSUSHITA | |
| | Q348 | DTC144ES | SILICON | ROHM | |
| | Q349 | DTA114YS | SILICON | ROHM | |
| | Q350 | DTC144ES | SILICON | ROHM | |
| | Q821 | 2SD1265A(O) | SILICON | MATSUSHITA | C |
| | Q822 | 2SC2235(O,Y) | SILICON | TOSHIBA | |
| | Q823 | DTC114YS | SILICON | ROHM | |
| | Q851 | 2SD1666(R,S) | SILICON | SANYO | |
| | Q852 | 2SD313V(D,E) | SILICON | SANYO | |
| | Q853 | 2SB1133(R,S) | SILICON | SANYO | |
| | Q961 | DTC114YS | SILICON | ROHM | |

⚠ : SAFETY PARTS

### I.C.s

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | IC011 | UPC1238V1 | I.C. | NEC | |
| | IC012 | UPC1238V1 | I.C. | NEC | |
| | IC341 | LC4966 | I.C. | SANYO | |
| | IC961 | TA7317P | I.C. | TOSHIBA | |

⚠ : SAFETY PARTS

### Diodes

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | D341 | MTZ9.1JC | ZENER | ROHM | |
| | D821 | ERA15-02L19 | SILICON | FUJIDENKI | |
| | D822 | ERA15-02L19 | SILICON | FUJIDENKI | |
| | D823 | ERA15-02L19 | SILICON | FUJIDENKI | |
| | D824 | ERA15-02L19 | SILICON | FUJIDENKI | |
| | D825 | MTZ12JC | ZENER | ROHM | C |
| | D826 | 1SS133 | SILICON | ROHM | |
| | D827 | RD6.2JSB3 | ZENER | NEC | |
| | D828 | 1SS133 | SILICON | ROHM | |
| | D851 | MTZ6.8JC | ZENER | ROHM | |
| | D853 | MTZ24JC | ZENER | ROHM | |
| | D854 | 1SS133 | SILICON | ROHM | |
| | D855 | MTZ13JC | ZENER | ROHM | |
| | D856 | 1SS133 | SILICON | ROHM | |
| | D861 | ERA15-02L19 | SILICON | FUJIDENKI | |
| | D862 | ERA15-02L19 | SILICON | FUJIDENKI | |
| | D863 | ERA15-02L19 | SILICON | FUJIDENKI | |
| | D864 | ERA15-02L19 | SILICON | FUJIDENKI | |

⚠ : SAFETY PARTS

### Capacitors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | C001 | QCZ9019-472 | 4700PF | | CERAMIC | A |
| | C001 | QCZ9019-472 | 4700PF | | CERAMIC | B |
| | C001 | QCZ9019-472 | 4700PF | | CERAMIC | C |
| | C001 | QCZ9019-472 | 4700PF | | CERAMIC | D |
| | C001 | QCZ9019-472 | 4700PF | | CERAMIC | F |
| | C001 | QCZ9019-472 | 4700PF | | CERAMIC | G |
| | C001 | QCZ9019-472BS | 4700PF | | CERAMIC | EBS |
| | C013 | QCS21HJ-221 | 220PF | 50V | CERAMIC | |
| | C014 | QCS21HJ-221 | 220PF | 50V | CERAMIC | |
| | C015 | QEHC1CM-226 | 22MF | 16V | ELECTRO | |
| | C016 | QEHC1CM-226 | 22MF | 16V | ELECTRO | |
| | C017 | QFN81HK-473 | 0.047MF | 50V | MYLAR | |
| | C018 | QFN81HK-473 | 0.047MF | 50V | MYLAR | |
| | C019 | QFN81HK-473 | 0.047MF | 50V | MYLAR | |
| | C020 | QFN81HK-473 | 0.047MF | 50V | MYLAR | |
| | C021 | QFN81HK-473 | 0.047MF | 50V | MYLAR | |
| | C022 | QFN81HK-473 | 0.047MF | 50V | MYLAR | |
| | C341 | QETBOJM-108 | 1000MF | 6.3V | ELECTRO | |
| | C342 | QETBOJM-108 | 1000MF | 6.3V | ELECTRO | |
| | C343 | QETBOJM-108 | 1000MF | 6.3V | ELECTRO | |
| | C344 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C345 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C346 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C347 | QETB1CM-476 | 47MF | 16V | ELECTRO | |
| | C348 | QCF21HP-103 | 0.01MF | 50V | CERAMIC | |
| | C349 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C350 | QETB1CM-476 | 47MF | 16V | ELECTRO | |
| | C351 | QETB1CM-476 | 47MF | 16V | ELECTRO | |
| | C352 | QETB1CM-476 | 47MF | 16V | ELECTRO | |
| | C353 | QETB1CM-477 | 470MF | 16V | ELECTRO | |
| | C354 | QETB1CM-477 | 470MF | 16V | ELECTRO | |
| | C821 | QFN32AK-473 | 0.047MF | 100V | MYLAR | |
| | C822 | QETB1EM-477 | 470MF | 25V | ELECTRO | A |
| | C822 | QETB1EM-477 | 470MF | 25V | ELECTRO | B |
| | C822 | QETB1EM-477 | 470MF | 25V | ELECTRO | D |
| | C822 | QETB1EM-477 | 470MF | 25V | ELECTRO | EBS |
| | C822 | QETB1EM-477 | 470MF | 25V | ELECTRO | F |
| | C822 | QETB1EM-477 | 470MF | 25V | ELECTRO | G |
| | C822 | QETB1JM-227 | 220MF | 63V | ELECTRO | C |
| | C823 | QETB1HM-225 | 2.2MF | 50V | ELECTRO | |
| | C824 | QCF21HP-472 | 4700PF | 50V | CERAMIC | C |
| | C826 | QETB1CM-476 | 47MF | 16V | ELECTRO | |
| | C851 | QEHC1EM-107 | 100MF | 25V | ELECTRO | |
| | C852 | QEHC1HM-107 | 100MF | 50V | ELECTRO | |
| | C853 | QETB1HM-107 | 100MF | 50V | ELECTRO | |
| | C854 | QCF21HP-472 | 4700PF | 50V | CERAMIC | |
| | C855 | QCF21HP-472 | 4700PF | 50V | CERAMIC | |
| | C856 | QCF21HP-472 | 4700PF | 50V | CERAMIC | |
| | C861 | QETB1EM-338 | 3300MF | 25V | ELECTRO | |
| | C862 | QETB1EM-338 | 3300MF | 25V | ELECTRO | |
| | C863 | QFN81HK-223 | 0.022MF | 50V | MYLAR | |
| | C977 | QFN81HK-223 | 0.022MF | 50V | MYLAR | |
| | C978 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C979 | QETB1CM-226 | 22MF | 16V | ELECTRO | |

⚠ : SAFETY PARTS

### Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| ⚠ | R001 | QRC128K-275EM | 2.7M | 1/2W | COMPOSI | A |
| ⚠ | R001 | QRC128K-275EM | 2.7M | 1/2W | COMPOSI | B |
| | R013 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R014 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R015 | QRD167J-152 | 1.5K | 1/6W | CARBON | |
| | R016 | QRD167J-152 | 1.5K | 1/6W | CARBON | |
| | R017 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R018 | QRD167J-563 | 56K | 1/6W | CARBON | |
| ⚠ | R019 | QRD14CJ-4R7S | 4.7 | 1/4W | UNF.CARBON | |
| ⚠ | R020 | QRD14CJ-4R7S | 4.7 | 1/4W | UNF.CARBON | |
| | R339 | QRD167J-333 | 33K | 1/6W | CARBON | |
| | R340 | QRD167J-123 | 12K | 1/6W | CARBON | |
| | R341 | QRD167J-680 | 68 | 1/6W | CARBON | |
| | R342 | QRD167J-750 | 75 | 1/6W | CARBON | |
| | R343 | QRD167J-680 | 68 | 1/6W | CARBON | |
| | R344 | QRD167J-750 | 75 | 1/6W | CARBON | |
| | R345 | QRD167J-680 | 68 | 1/6W | CARBON | |
| | R346 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R347 | QRD167J-560 | 56 | 1/6W | CARBON | |
| | R348 | QRD167J-102 | 1K | 1/6W | CARBON | |

⚠ : SAFETY PARTS

## Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | R349 | QRD167J-560 | 56 | 1/6W | CARBON | |
| | R350 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R351 | QRD167J-272 | 2.7K | 1/6W | CARBON | |
| | R352 | QRD167J-182 | 1.8K | 1/6W | CARBON | |
| | R353 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R354 | QRD167J-101 | 100 | 1/6W | CARBON | |
| | R357 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R358 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R359 | QRD167J-271 | 270 | 1/6W | CARBON | |
| | R360 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R361 | QRD167J-333 | 33K | 1/6W | CARBON | |
| | R362 | QRD167J-271 | 270 | 1/6W | CARBON | |
| | R363 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R364 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R365 | QRD167J-333 | 33K | 1/6W | CARBON | |
| | R366 | QRD167J-103 | 10K | 1/6W | CARBON | |
| ⚠ | R831 | QRD14CJ-100S | 10 | 1/4W | UNF.CARBON | A |
| ⚠ | R831 | QRD14CJ-100S | 10 | 1/4W | UNF.CARBON | B |
| ⚠ | R831 | QRD14CJ-3R3S | 3.3 | 1/4W | UNF.CARBON | C |
| ⚠ | R831 | QRZ0077-100 | 10 | 1/4W | FUSIBLE | D |
| ⚠ | R831 | QRZ0077-100 | 10 | 1/4W | FUSIBLE | G |
| ⚠ | R831 | QRZ0077-220 | 22 | 1/4W | FUSIBLE | EBS |
| ⚠ | R831 | QRZ0077-220 | 22 | 1/4W | FUSIBLE | F |
| | R832 | QRD167J-472 | 4.7K | 1/6W | CARBON | A |
| | R832 | QRD167J-472 | 4.7K | 1/6W | CARBON | B |
| | R832 | QRD167J-472 | 4.7K | 1/6W | CARBON | D |
| | R832 | QRD167J-472 | 4.7K | 1/6W | CARBON | EBS |
| | R832 | QRD167J-472 | 4.7K | 1/6W | CARBON | F |
| | R832 | QRD167J-472 | 4.7K | 1/6W | CARBON | G |
| | R832 | QRD167J-622 | 6.2K | 1/6W | CARBON | C |
| | R833 | QRD167J-821 | 820 | 1/6W | CARBON | |
| ⚠ | R834 | QRG012J-272A | 2.7K | 1W | O.M.FILM | C |
| ⚠ | R852 | QRD14CJ-330S | 33 | 1/4W | UNF.CARBON | A |
| ⚠ | R852 | QRD14CJ-330S | 33 | 1/4W | UNF.CARBON | B |
| ⚠ | R852 | QRD14CJ-330S | 33 | 1/4W | UNF.CARBON | C |
| ⚠ | R852 | QRZ0077-330 | 33 | 1/4W | FUSIBLE | D |
| ⚠ | R852 | QRZ0077-330 | 33 | 1/4W | FUSIBLE | EBS |
| ⚠ | R852 | QRZ0077-330 | 33 | 1/4W | FUSIBLE | F |
| ⚠ | R852 | QRZ0077-330 | 33 | 1/4W | FUSIBLE | G |
| | R853 | QRD167J-152 | 1.5K | 1/6W | CARBON | |
| ⚠ | R854 | QRD125J-562 | 5.6K | 1/2W | UNF.CARBON | |
| ⚠ | R855 | QRD14CJ-121S | 120 | 1/4W | UNF.CARBON | A |
| ⚠ | R855 | QRD14CJ-121S | 120 | 1/4W | UNF.CARBON | B |
| ⚠ | R855 | QRD14CJ-121S | 120 | 1/4W | UNF.CARBON | C |
| ⚠ | R855 | QRZ0077-121 | 120 | 1/4W | FUSIBLE | D |
| ⚠ | R855 | QRZ0077-121 | 120 | 1/4W | FUSIBLE | EBS |
| ⚠ | R855 | QRZ0077-121 | 120 | 1/4W | FUSIBLE | F |
| ⚠ | R855 | QRZ0077-121 | 120 | 1/4W | FUSIBLE | G |
| ⚠ | R856 | QRD125J-562 | 5.6K | 1/2W | UNF.CARBON | |
| ⚠ | R857 | QRD14CJ-270S | 27 | 1/4W | UNF.CARBON | A |
| ⚠ | R857 | QRD14CJ-270S | 27 | 1/4W | UNF.CARBON | B |
| ⚠ | R857 | QRD14CJ-270S | 27 | 1/4W | UNF.CARBON | C |
| ⚠ | R857 | QRZ0077-270 | 27 | 1/4W | FUSIBLE | D |
| ⚠ | R857 | QRZ0077-270 | 27 | 1/4W | FUSIBLE | EBS |
| ⚠ | R857 | QRZ0077-270 | 27 | 1/4W | FUSIBLE | F |
| ⚠ | R857 | QRZ0077-270 | 27 | 1/4W | FUSIBLE | G |
| | R961 | QRD167J-823 | 82K | 1/6W | CARBON | |
| | R962 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R963 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R964 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R965 | QRD167J-683 | 68K | 1/6W | CARBON | |
| | R966 | QRD167J-392 | 3.9K | 1/6W | CARBON | |
| | R967 | QRD167J-224 | 220K | 1/6W | CARBON | |
| | R968 | QRD167J-**103** | **10K** | 1/6W | CARBON | |
| | R969 | QRD167J-121 | 120 | 1/6W | CARBON | A |
| | R969 | QRD167J-121 | 120 | 1/6W | CARBON | B |
| | R969 | QRD167J-390 | 39 | 1/6W | CARBON | C |
| | R969 | QRD167J-390 | 39 | 1/6W | CARBON | D |
| | R969 | QRD167J-390 | 39 | 1/6W | CARBON | EBS |
| | R969 | QRD167J-390 | 39 | 1/6W | CARBON | F |
| | R969 | QRD167J-390 | 39 | 1/6W | CARBON | G |
| ⚠ | R970 | QRD125J-471 | 470 | 1/2W | UNF.CARBON | |
| ⚠ | R971 | QRG022J-561A | 560 | 2W | O.M.FILM | |

⚠ : SAFETY PARTS

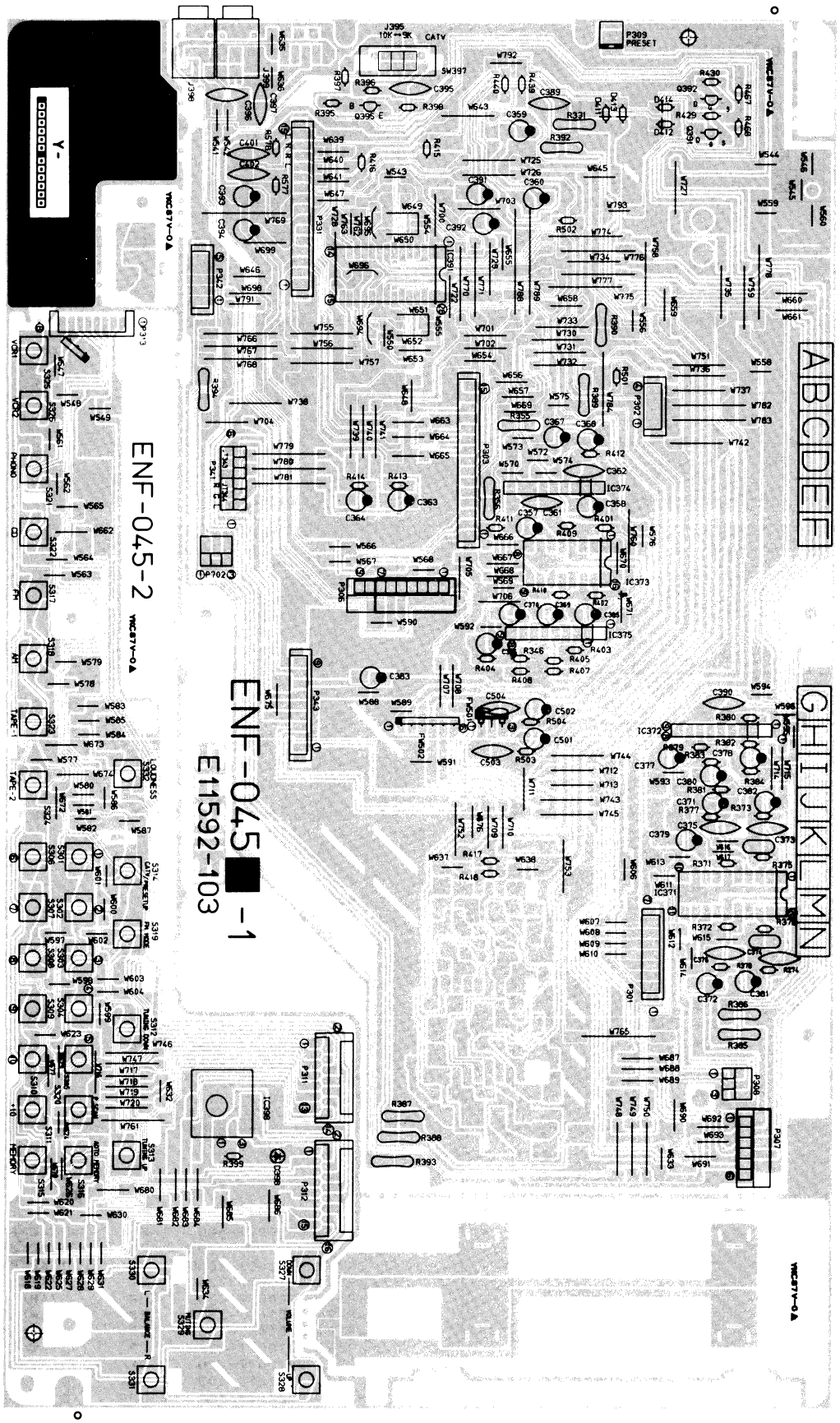
## Others

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|---|---|---|---|
| | | EMG7331-002U | FUSE CLIP | |
| | | EMG7331-002U | FUSE CLIP | A |
| | | EMG7331-002U | FUSE CLIP | B |
| | | EMG7331-002U | FUSE CLIP | D |
| | | EMG7331-002U | FUSE CLIP | EBS |
| | | EMG7331-002U | FUSE CLIP | F |
| | | EMG7331-002U | FUSE CLIP | G |
| | | EMG7331-002 | FUSE CLIP | |
| | | EMG7331-002 | FUSE CLIP | A |
| | | EMG7331-002 | FUSE CLIP | B |
| | | EMG7331-002 | FUSE CLIP | D |
| | | EMG7331-002 | FUSE CLIP | EBS |
| | | EMG7331-002 | FUSE CLIP | F |
| | | EMG7331-002 | FUSE CLIP | G |
| ⚠ | | ETP1000-41EA | POWER TRANSFORMER | D |
| ⚠ | | ETP1000-41EA | POWER TRANSFORMER | F |
| ⚠ | | ETP1000-41EA | POWER TRANSFORMER | G |
| ⚠ | | ETP1000-41EABS | POWER TRANSFORMER | EBS |
| ⚠ | | ETP1000-41ZB | POWER TRANSFORMER | C |
| ⚠ | | ETP1000-42JA | POWER TRANSFORMER | A |
| ⚠ | | ETP1000-42JA | POWER TRANSFORMER | B |
| | | E11666-002 | CIRCUIT BOARD | A |
| | | E11666-002 | CIRCUIT BOARD | B |
| | | E11666-102 | CIRCUIT BOARD | C |
| | | E11666-102 | CIRCUIT BOARD | D |
| | | E11666-102 | CIRCUIT BOARD | F |
| | | E11666-102 | CIRCUIT BOARD | G |
| | | E11666-102BS | CIRCUIT COARD | EBS |
| | | E65508-002 | TAB | |
| | | E67764-102 | WRAPPING TERMINAL | |
| | | E67764-202 | WRAPPING TERMINAL | |
| | | E67764-202 | WRAPPING TERMINAL | |
| | | E67764-203 | WRAPPING TERMINAL | |
| | | E67764-302 | WRAPPING TERMINAL | A |
| | | E67764-302 | WRAPPING TERMINAL | B |
| | | E67764-302 | WRAPPING TERMINAL | C |
| | | E70859-001 | EARTH PLATE | |
| | | E70859-001 | EARTH PLATE | A |
| | | E70859-001 | EARTH PLATE | B |
| | | E70945-H40B | HEAT SINK | C |
| | | E74754-001 | HEAT SINK | |
| ⚠ | | QMC0437-002 | AC OUTLET | C |
| ⚠ | | QMC0440-001 | AC OUTLET | A |
| ⚠ | | QMC0440-001 | AC OUTLET | B |
| | | SBSB3008CC | SCREW | |
| | | SBSB3012CC | SCREW | C |
| | | SBSE3008CC | SCREW | |
| | J341 | EMN00YV-304A | 3P PIN JACK | |
| | J342 | EMN00YV-205A | 2P PIN JACK | |
| | J961 | EMV7122-003 | CONNECTOR | |
| | J962 | EMV7122-003 | CONNECTOR | |
| | P342 | EMV7125-005R | CONNECTOR | |
| | P851 | EMV7122-003 | CONNECTOR | |
| | P852 | EMV7122-005 | CONNECTOR | |
| | FW341 | EWR36B-20LST | FLAT WIRE | |
| | RY001 | ESK1D12-113 | RELAY | |
| | RY001 | ESK1D12-113 | RELAY | A |
| | RY001 | ESK1D12-113 | RELAY | B |
| | RY001 | ESK1D12-113 | RELAY | C |
| | RY001 | ESK1D12-113 | RELAY | D |
| | RY001 | ESK1D12-113 | RELAY | F |
| | RY001 | ESK1D12-113 | RELAY | G |
| | RY001 | ESK1D12-113BS | RELAY | EBS |

⚠ : SAFETY PARTS

## ■ ENF-045 □ Volume. SEA PC Board Ass'y

**Note:** ENF-045 □ varies according to the areas employed. See note (1) when placing an order.



### Note (1)

| PC Board Ass'y | Designated Areas |
|---|---|
| ENF-045 A | U.S.A., Canada |
| ENF-045 B | U.S. Millitary Market & Other Countries |
| ENF-045 C | Continental Europe<br>Continental Europe (with LW),<br>Australia, Italy (with LW),<br>U.K. (with LW) |
| ENF-045 D | West Germany |

### Transistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | Q391 | 2SK105(H) | F.E.T | NEC | |
| | Q392 | 2SK105(H) | F.E.T | NEC | |
| | Q395 | 2SC1685(Q,R) | SILICON | MATSUSHITA | A |

⚠ : SAFETY PARTS

### I.C.s

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | IC371 | TC9177P | I.C. | TOSHIBA | |
| | IC372 | NJM4560SD | I.C. | JRC | |
| | IC373 | TC9176P | I.C. | TOSHIBA | |
| | IC374 | NJM4560SD | I.C. | JRC | |
| | IC375 | NJM4560SD | I.C. | JRC | |
| | IC391 | TC9162N | I.C. | TOSHIBA | |
| | IC398 | A1QH3021H0 | I.C. | SHARP | |

⚠ : SAFETY PARTS

### Diodes

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | D398 | SLH-34VC3F | L.E.D. | ROHM | |
| | D411 | 1SS133 | SILICON | ROHM | |
| | D412 | 1SS133 | SILICON | ROHM | |
| | D413 | 1SS133 | SILICON | ROHM | |
| | D414 | 1SS133 | SILICON | ROHM | |

⚠ : SAFETY PARTS

### Capaciters

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | C357 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C358 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C359 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C360 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C361 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C362 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C363 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C364 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C367 | QETB1EM-476 | 47MF | 25V | ELECTRO | |
| | C368 | QETB1HM-476 | 47MF | 50V | ELECTRO | |
| | C369 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C370 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C371 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C372 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C373 | QFN81HK-333 | 0.033MF | 50V | MYLAR | |
| | C374 | QFN81HK-333 | 0.033MF | 50V | MYLAR | |
| | C375 | QCS21HJ-181 | 180PF | 50V | CERAMIC | |
| | C376 | QCS21HJ-181 | 180PF | 50V | CERAMIC | |
| | C377 | QEK61HM-105G | 1MF | 50V | ELECTRO | |
| | C378 | QEK61HM-105G | 1MF | 50V | ELECTRO | |
| | C379 | QEK61CM-106G | 10MF | 16V | ELECTRO | |
| | C380 | QEK61CM-106G | 10MF | 16V | ELECTRO | |
| | C381 | QETB1EM-476 | 47MF | 25V | ELECTRO | |
| | C382 | QETB1HM-476 | 47MF | 50V | ELECTRO | |
| | C383 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |

⚠ : SAFETY PARTS

### Capacitors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | C385 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C386 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C389 | QCY21HK-472 | 4700PF | 50V | CERAMIC | |
| | C390 | QCY21HK-472 | 4700PF | 50V | CERAMIC | |
| | C391 | QETB1EM-476 | 47MF | 25V | ELECTRO | |
| | C392 | QETB1HM-476 | 47MF | 50V | ELECTRO | |
| | C393 | QETB1EM-476 | 47MF | 25V | ELECTRO | |
| | C394 | QETB1EM-476 | 47MF | 25V | ELECTRO | |
| | C395 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | A |
| | C396 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C397 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C501 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C502 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C503 | QCS21HJ-470 | 47PF | 50V | CERAMIC | |
| | C504 | QCS21HJ-470 | 47PF | 50V | CERAMIC | |

⚠ : SAFETY PARTS

### Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| ⚠ | R355 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | A |
| ⚠ | R355 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | B |
| ⚠ | R355 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | C |
| ⚠ | R355 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | D |
| ⚠ | R356 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | A |
| ⚠ | R356 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | B |
| ⚠ | R356 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | C |
| ⚠ | R356 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | D |
| | R371 | QRD167J-274 | 270K | 1/6W | CARBON | |
| | R372 | QRD167J-274 | 270K | 1/6W | CARBON | |
| | R373 | QRD167J-105 | 1M | 1/6W | CARBON | |
| | R374 | QRD167J-105 | 1M | 1/6W | CARBON | |
| | R375 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R376 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R377 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R378 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R379 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R380 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R381 | QRD167J-912 | 9.1K | 1/6W | CARBON | |
| | R382 | QRD167J-912 | 9.1K | 1/6W | CARBON | |
| | R383 | QRD167J-105 | 1M | 1/6W | CARBON | |
| | R384 | QRD167J-105 | 1M | 1/6W | CARBON | |
| ⚠ | R385 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | A |
| ⚠ | R385 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | B |
| ⚠ | R385 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | C |
| ⚠ | R385 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | D |
| ⚠ | R386 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | A |
| ⚠ | R386 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | B |
| ⚠ | R386 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | C |
| ⚠ | R386 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | D |
| ⚠ | R387 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | A |
| ⚠ | R387 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | B |
| ⚠ | R387 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | C |
| ⚠ | R387 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | D |
| ⚠ | R388 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | A |
| ⚠ | R388 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | B |
| ⚠ | R388 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | C |
| ⚠ | R388 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | D |
| ⚠ | R389 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | A |
| ⚠ | R389 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | B |
| ⚠ | R389 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | C |
| ⚠ | R389 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | D |
| ⚠ | R390 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | A |
| ⚠ | R390 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | B |
| ⚠ | R390 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | C |
| ⚠ | R390 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | D |
| ⚠ | R391 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | A |
| ⚠ | R391 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | B |
| ⚠ | R391 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | C |
| ⚠ | R391 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | D |
| ⚠ | R392 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | A |
| ⚠ | R392 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | B |
| ⚠ | R392 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | C |
| ⚠ | R392 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | D |
| ⚠ | R393 | QRD14CJ-220S | 22 | 1/4W | UNF.CARBON | A |
| ⚠ | R393 | QRD14CJ-220S | 22 | 1/4W | UNF.CARBON | B |
| ⚠ | R393 | QRZ0077-220 | 22 | 1/4W | FUSIBLE | C |
| ⚠ | R393 | QRZ0077-220 | 22 | 1/4W | FUSIBLE | D |
| ⚠ | R394 | QRD14CJ-220S | 22 | 1/4W | UNF.CARBON | A |
| ⚠ | R394 | QRD14CJ-220S | 22 | 1/4W | UNF.CARBON | B |
| ⚠ | R394 | QRZ0077-220 | 22 | 1/4W | FUSIBLE | C |
| ⚠ | R394 | QRZ0077-220 | 22 | 1/4W | FUSIBLE | D |
| | R395 | QRD167J-103 | 10K | 1/6W | CARBON | A |
| | R396 | QRD167J-101 | 100 | 1/6W | CARBON | A |
| | R397 | QRD167J-221 | 220 | 1/6W | CARBON | A |

⚠ : SAFETY PARTS

## Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | R398 | QRD167J-103 | 10K | 1/6W | CARBON | A |
| | R399 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R401 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R402 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R403 | QRD167J-432 | 4.3K | 1/6W | CARBON | |
| | R404 | QRD167J-432 | 4.3K | 1/6W | CARBON | |
| | R405 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R406 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R407 | QRD167J-105 | 1M | 1/6W | CARBON | |
| | R408 | QRD167J-105 | 1M | 1/6W | CARBON | |
| | R409 | QRD167J-274 | 270K | 1/6W | CARBON | |
| | R410 | QRD167J-274 | 270K | 1/6W | CARBON | |
| | R411 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R412 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R413 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R414 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R415 | QRD167J-154 | 150K | 1/6W | CARBON | |
| | R416 | QRD167J-154 | 150K | 1/6W | CARBON | |
| | R417 | QRD167J-363 | 36K | 1/6W | CARBON | |
| | R418 | QRD167J-363 | 36K | 1/6W | CARBON | |
| | R429 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R430 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R439 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R440 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R467 | QRD167J-513 | 51K | 1/6W | CARBON | |
| | R468 | QRD167J-513 | 51K | 1/6W | CARBON | |
| | R501 | QRD167J-513 | 51K | 1/6W | CARBON | |
| | R502 | QRD167J-513 | 51K | 1/6W | CARBON | |
| | R503 | QRD167J-105 | 1M | 1/6W | CARBON | |
| | R504 | QRD167J-105 | 1M | 1/6W | CARBON | |
| | R577 | QRD167J-363 | 36K | 1/6W | CARBON | |
| | R578 | QRD167J-363 | 36K | 1/6W | CARBON | |

⚠ : SAFETY PARTS

## Others

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|---|---|---|---|
| | | E11592-103 | CIRCUIT BOARD | |
| | J398 | QMS3L10-0A0 | MINI JACK | |
| | J399 | QMS3L10-0A0 | MINI JACK | |
| | P301 | EMV5125-007 | PLUG ASSY | |
| | P302 | EMV5125-004 | PLUG ASSY | |
| | P303 | EMV5125-015 | PLUG ASSY | |
| | P306 | EMV7112-007 | CONNECTOR | A |
| | P306 | EMV7112-007 | CONNECTOR | C |
| | P306 | EMV7112-007 | CONNECTOR | D |
| | P306 | EMV7112-009 | CONNECTOR | B |
| | P307 | EMV7112-006 | CONNECTOR | |
| | P308 | EMV7122-003 | CONNECTOR | |
| | P309 | QMV5005-002K | PLUG ASSY | |
| | P311 | EMV7128-014 | CONNECTOR | |
| | P312 | EMV7128-016 | CONNECTOR | |
| | P313 | EMV7120-008 | CONNECTOR | |
| | P331 | EMV5125-015 | PLUG ASSY | |
| | P342 | EMV5125-005 | PLUG ASSY | |
| | P343 | EMV5125-009 | PLUG ASSY | |
| | P702 | EMV7122-003 | CONNECTOR | |
| | S301 | ESP0001-018 | TACT SWITCH | |
| | S302 | ESP0001-018 | TACT SWITCH | |
| | S303 | ESP0001-018 | TACT SWITCH | |
| | S304 | ESP0001-018 | TACT SWITCH | |
| | S305 | ESP0001-018 | TACT SWITCH | |
| | S306 | ESP0001-018 | TACT SWITCH | |
| | S307 | ESP0001-018 | TACT SWITCH | |
| | S308 | ESP0001-018 | TACT SWITCH | |
| | S309 | ESP0001-018 | TACT SWITCH | |
| | S310 | ESP0001-018 | TACT SWITCH | |
| | S311 | ESP0001-018 | TACT SWITCH | |
| | S312 | ESP0001-018 | TACT SWITCH | |
| | S313 | ESP0001-018 | TACT SWITCH | |
| | S314 | ESP0001-018 | TACT SWITCH | |
| | S315 | ESP0001-018 | TACT SWITCH | |
| | S316 | ESP0001-018 | TACT SWITCH | |
| | S317 | ESP0001-018 | TACT SWITCH | |
| | S318 | ESP0001-018 | TACT SWITCH | |
| | S319 | ESP0001-018 | TACT SWITCH | |
| | S320 | ESP0001-018 | TACT SWITCH | |
| | S321 | ESP0001-018 | TACT SWITCH | |
| | S322 | ESP0001-018 | TACT SWITCH | |
| | S323 | ESP0001-018 | TACT SWITCH | |
| | S324 | ESP0001-018 | TACT SWITCH | |
| | S325 | ESP0001-018 | TACT SWITCH | |

⚠ : SAFETY PARTS

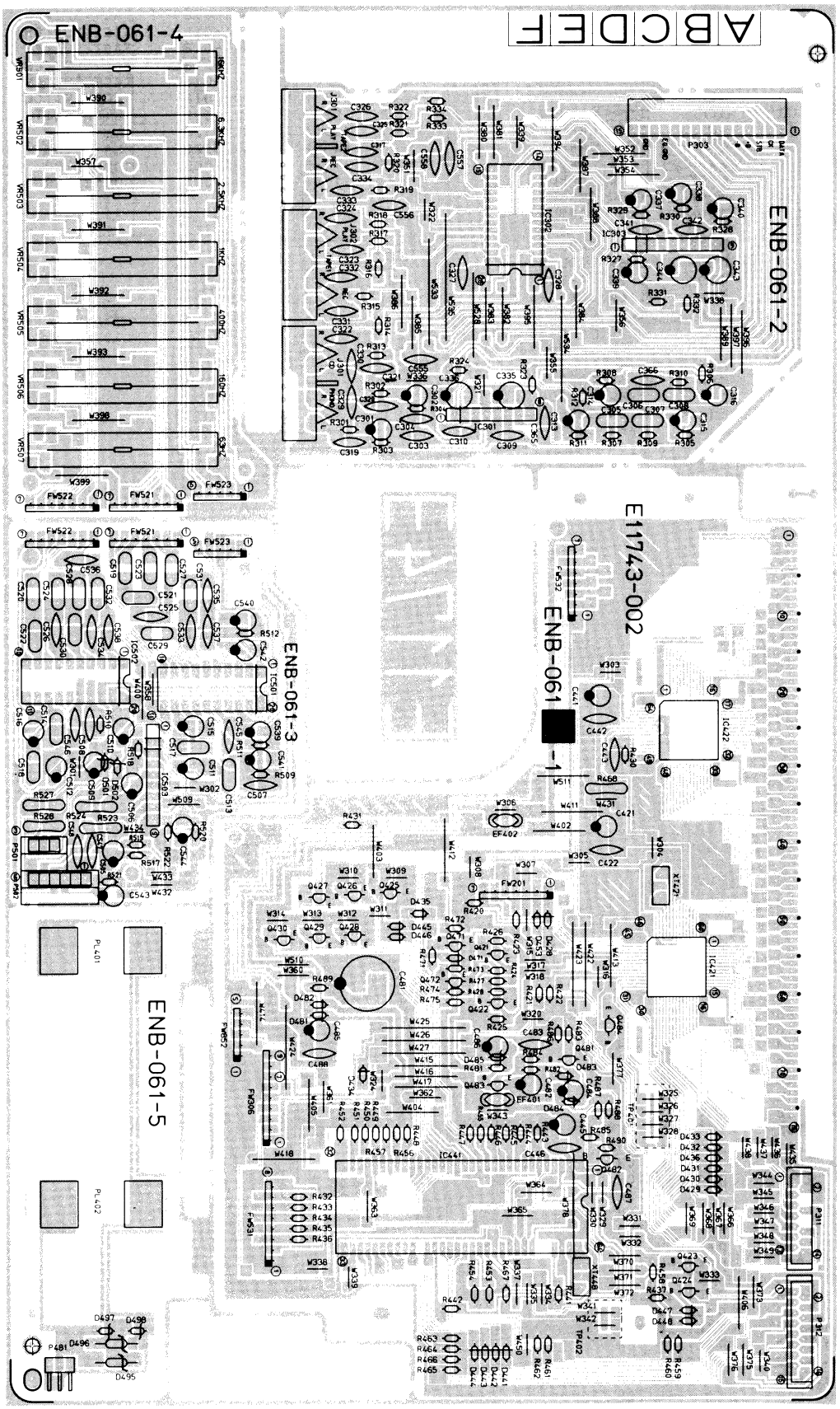
## Others

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|---|---|---|---|
| | S326 | ESP0001-018 | TACT SWITCH | |
| | S327 | ESP0001-018 | TACT SWITCH | |
| | S328 | ESP0001-018 | TACT SWITCH | |
| | S329 | ESP0001-018 | TACT SWITCH | |
| | S330 | ESP0001-018 | TACT SWITCH | |
| | S331 | ESP0001-018 | TACT SWITCH | |
| | S332 | ESP0001-018 | TACT SWITCH | |
| | S397 | QSS1F22-E01 | SLIDE SWITCH | B |
| | FW501 | EWR23C-35JN | FLAT WIRE | |
| | FW502 | EWR36B-35KST | FLAT WIRE | |
| | JT343 | EMV7122-003 | CONNECTOR | |
| | JT344 | EMV7122-003 | CONNECTOR | |

⚠ : SAFETY PARTS

## ■ ENB-061 ☐ LCD Display Tuner Audio Control PC Board Ass'y

**Note:** ENB-061 ☐ varies according to the areas employed. See note (1) when placing an order.



### Note (1)

| PC Board Ass'y | Designated Areas |
|---|---|
| ENB-061 A | U.S.A., Canada |
| ENB-061 B | U.S. Military Market & Other Countries |
| ENB-061 C | Continental Europe, Australia |
| ENB-061 D | Continental Europe (with LW), U.K. (with LW) |
| ENB-061 E | West Germany |
| ENB-061 F | Italy |

### Transistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | Q421 | 2SC458(C,D) | SILICON | HITACHI | |
| | Q422 | 2SC458(C,D) | SILICON | HITACHI | |
| | Q423 | DTC144ES | SILICON | ROHM | |
| | Q424 | DTC144ES | SILICON | ROHM | |
| | Q425 | DTC144ES | SILICON | ROHM | |
| | Q426 | DTC144ES | SILICON | ROHM | |
| | Q427 | DTC144ES | SILICON | ROHM | |
| | Q428 | DTC144ES | SILICON | ROHM | |
| | Q429 | DTC144ES | SILICON | ROHM | |
| | Q430 | DTC144ES | SILICON | ROHM | |
| | Q471 | 2SC458(C,D) | SILICON | HITACHI | |
| | Q472 | 2SC458(C,D) | SILICON | HITACHI | |
| | Q481 | 2SC458(C,D) | SILICON | HITACHI | |
| | Q482 | 2SC458(C,D) | SILICON | HITACHI | |
| | Q483 | DTC144ES | SILICON | ROHM | |

⚠ : SAFETY PARTS

### I.C.s

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | IC301 | M5218L-R | I.C. | MITSUBISHI | |
| | IC302 | TC9164N | I.C. | TOSHIBA | |
| | IC303 | NJM4560SD | I.C. | JRC | |
| | IC421 | TC9306F-034BS | I.C. | TOSHIBA | |
| | IC422 | LC7582A | I.C. | SANYO | |
| | IC441 | MN17581JSL1 | I.C. | MATSUSHITA | |
| | IC501 | LA3607S | I.C. | SANYO | |
| | IC502 | LA3607S | I.C. | SANYO | |
| | IC503 | NJM4560SD | I.C. | JRC | |

⚠ : SAFETY PARTS

### Diodes

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | D428 | 1SS133 | SILICON | ROHM | |
| | D429 | 1SS133 | SILICON | ROHM | F |
| | D430 | 1SS133 | SILICON | ROHM | A |
| | D431 | 1SS133 | SILICON | ROHM | F |
| | D432 | 1SS133 | SILICON | ROHM | C |
| | D432 | 1SS133 | SILICON | ROHM | D |
| | D432 | 1SS133 | SILICON | ROHM | E |
| | D432 | 1SS133 | SILICON | ROHM | F |
| | D433 | 1SS133 | SILICON | ROHM | D |
| | D433 | 1SS133 | SILICON | ROHM | F |
| | D434 | 1SS133 | SILICON | ROHM | B |
| | D435 | 1SS133 | SILICON | ROHM | |
| | D436 | 1SS133 | SILICON | ROHM | |
| | D441 | 1SS133 | SILICON | ROHM | |
| | D442 | 1SS133 | SILICON | ROHM | |
| | D443 | 1SS133 | SILICON | ROHM | |
| | D444 | 1SS133 | SILICON | ROHM | |
| | D445 | 1SS133 | SILICON | ROHM | |
| | D446 | 1SS133 | SILICON | ROHM | |
| | D447 | 1SS133 | SILICON | ROHM | |
| | D448 | 1SS133 | SILICON | ROHM | |
| | D471 | 1SS133 | SILICON | ROHM | |
| | D481 | 1SS133 | SILICON | ROHM | |
| | D482 | 1SS133 | SILICON | ROHM | |
| | D483 | 1SS133 | SILICON | ROHM | |

⚠ : SAFETY PARTS

### Diodes

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | D484 | 1SS133 | SILICON | ROHM | |
| | D485 | MTZ5.6JC | ZENER | ROHM | |
| | D487 | MTZ12JC | ZENER | ROHM | |
| | D488 | MTZ12JC | ZENER | ROHM | |
| | D489 | MTZ12JC | ZENER | ROHM | |
| | D490 | MTZ12JC | ZENER | ROHM | |
| | D495 | RD12EB3 | ZENER | NEC | C |
| | D495 | RD12EB3 | ZENER | NEC | D |
| | D495 | RD12EB3 | ZENER | NEC | E |
| | D495 | RD12EB3 | ZENER | NEC | F |
| | D496 | RD12EB3 | ZENER | NEC | C |
| | D496 | RD12EB3 | ZENER | NEC | D |
| | D496 | RD12EB3 | ZENER | NEC | E |
| | D496 | RD12EB3 | ZENER | NEC | F |
| | D497 | MTZ12JC | ZENER | ROHM | A |
| | D497 | MTZ12JC | ZENER | ROHM | B |
| | D498 | MTZ12JC | ZENER | ROHM | A |
| | D498 | MTZ12JC | ZENER | ROHM | B |
| | D501 | MTZ7.5JB | ZENER | ROHM | |
| | D502 | MTZ7.5JB | ZENER | ROHM | |

⚠ : SAFETY PARTS

### Capacitors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | C301 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C302 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C303 | QCS21HJ-101 | 100PF | 50V | CERAMIC | A |
| | C303 | QCS21HJ-101 | 100PF | 50V | CERAMIC | B |
| | C303 | QCS21HJ-101 | 100PF | 50V | CERAMIC | C |
| | C303 | QCS21HJ-101 | 100PF | 50V | CERAMIC | D |
| | C303 | QCS21HJ-101 | 100PF | 50V | CERAMIC | F |
| | C303 | QCS21HJ-471 | 470PF | 50V | CERAMIC | E |
| | C304 | QCS21HJ-101 | 100PF | 50V | CERAMIC | A |
| | C304 | QCS21HJ-101 | 100PF | 50V | CERAMIC | B |
| | C304 | QCS21HJ-101 | 100PF | 50V | CERAMIC | C |
| | C304 | QCS21HJ-101 | 100PF | 50V | CERAMIC | D |
| | C304 | QCS21HJ-101 | 100PF | 50V | CERAMIC | F |
| | C304 | QCS21HJ-471 | 470PF | 50V | CERAMIC | E |
| | C305 | QFN81HJ-182 | 1800PF | 50V | MYLAR | |
| | C306 | QFN81HJ-182 | 1800PF | 50V | MYLAR | |
| | C307 | QFN81HJ-682 | 6800PF | 50V | MYLAR | |
| | C308 | QFN81HJ-682 | 6800PF | 50V | MYLAR | |
| | C309 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C310 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C313 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C314 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C315 | QETB1CM-107 | 100MF | 16V | ELECTRO | |
| | C316 | QETB1CM-107 | 100MF | 16V | ELECTRO | |
| | C317 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C319 | QCS21HJ-101 | 100PF | 50V | CERAMIC | E |
| | C320 | QCS21HJ-101 | 100PF | 50V | CERAMIC | E |
| | C321 | QCS21HJ-331 | 330PF | 50V | CERAMIC | E |
| | C322 | QCS21HJ-331 | 330PF | 50V | CERAMIC | E |
| | C323 | QCS21HJ-331 | 330PF | 50V | CERAMIC | E |
| | C324 | QCS21HJ-331 | 330PF | 50V | CERAMIC | E |
| | C325 | QCS21HJ-331 | 330PF | 50V | CERAMIC | E |
| | C326 | QCS21HJ-331 | 330PF | 50V | CERAMIC | E |
| | C327 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C328 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C329 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C330 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C331 | QCS21HJ-151 | 150PF | 50V | CERAMIC | E |
| | C332 | QCS21HJ-151 | 150PF | 50V | CERAMIC | E |
| | C333 | QCS21HJ-101 | 100PF | 50V | CERAMIC | E |
| | C334 | QCS21HJ-101 | 100PF | 50V | CERAMIC | E |
| | C335 | QETB1EM-476 | 47MF | 25V | ELECTRO | |
| | C336 | QETB1EM-476 | 47MF | 25V | ELECTRO | |
| | C337 | QETB1CM-226 | 22MF | 16V | ELECTRO | |
| | C338 | QETB1CM-226 | 22MF | 16V | ELECTRO | |
| | C339 | QETB1CM-226 | 22MF | 16V | ELECTRO | |
| | C340 | QETB1CM-226 | 22MF | 16V | ELECTRO | |
| | C341 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C342 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C343 | QETB1CM-226 | 22MF | 16V | ELECTRO | |
| | C344 | QETB1HM-226 | 22MF | 50V | ELECTRO | |
| | C365 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C366 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C421 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C422 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |

⚠ : SAFETY PARTS

## Capacitors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | C441 | QETBOJM-477 | 470MF | 6.3V | ELECTRO | |
| | C442 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C443 | QCS21HJ-681 | 680PF | 50V | CERAMIC | |
| | C445 | QETBOJM-477 | 470MF | 6.3V | ELECTRO | |
| | C446 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C481 | EEZ0503-479 | 47000MF | | ELECTRO | |
| | C482 | QETB1HM-225 | 2.2MF | 50V | ELECTRO | |
| | C483 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C484 | QETB1HM-225 | 2.2MF | 50V | ELECTRO | |
| | C485 | QETBOJM-227 | 220MF | 6.3V | ELECTRO | |
| | C486 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C488 | QCZ0205-155 | 1.5MF | 25V | CERAMIC | |
| | C505 | QETB1CM-226 | 22MF | 16V | ELECTRO | |
| | C506 | QETB1CM-226 | 22MF | 16V | ELECTRO | |
| | C507 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C508 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C509 | QETB1CM-226 | 22MF | 16V | ELECTRO | |
| | C510 | QETB1CM-226 | 22MF | 16V | ELECTRO | |
| | C511 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C512 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C513 | QFN81HK-683 | 0.068MF | 50V | MYLAR | |
| | C514 | QFN81HK-683 | 0.068MF | 50V | MYLAR | |
| | C515 | QETB1HM-474 | 0.47MF | 50V | ELECTRO | |
| | C516 | QETB1HM-474 | 0.47MF | 50V | ELECTRO | |
| | C517 | QFN81HK-223 | 0.022MF | 50V | MYLAR | |
| | C518 | QFN81HK-223 | 0.022MF | 50V | MYLAR | |
| | C519 | QFN81HK-154 | 0.15MF | 50V | MYLAR | |
| | C520 | QFN81HK-154 | 0.15MF | 50V | MYLAR | |
| | C521 | QFN81HK-103 | 0.01MF | 50V | MYLAR | |
| | C522 | QFN81HK-103 | 0.01MF | 50V | MYLAR | |
| | C523 | QFN81HK-683 | 0.068MF | 50V | MYLAR | |
| | C524 | QFN81HK-683 | 0.068MF | 50V | MYLAR | |
| | C525 | QCY21HK-392 | 3900PF | 50V | CERAMIC | |
| | C526 | QCY21HK-392 | 3900PF | 50V | CERAMIC | |
| | C527 | QFN81HK-273 | 0.027MF | 50V | MYLAR | |
| | C528 | QFN81HK-273 | 0.027MF | 50V | MYLAR | |
| | C529 | QFN81HK-152 | 1500PF | 50V | MYLAR | |
| | C530 | QFN81HK-152 | 1500PF | 50V | MYLAR | |
| | C531 | QFN81HK-103 | 0.01MF | 50V | MYLAR | |
| | C532 | QFN81HK-103 | 0.01MF | 50V | MYLAR | |
| | C533 | QCY21HK-681 | 680PF | 50V | CERAMIC | |
| | C534 | QCY21HK-681 | 680PF | 50V | CERAMIC | |
| | C535 | QCY21HK-562 | 5600PF | 50V | CERAMIC | |
| | C536 | QCY21HK-562 | 5600PF | 50V | CERAMIC | |
| | C537 | QCS21HJ-221 | 220PF | 50V | CERAMIC | |
| | C538 | QCS21HJ-221 | 220PF | 50V | CERAMIC | |
| | C539 | QEK61CM-226 | 22MF | 16V | ELECTRO | |
| | C540 | QEK61CM-226 | 22MF | 16V | ELECTRO | |
| | C541 | QEK61CM-226 | 22MF | 16V | ELECTRO | |
| | C542 | QEK61CM-226 | 22MF | 16V | ELECTRO | |
| | C543 | QETB1CM-226 | 22MF | 16V | ELECTRO | |
| | C544 | QETB1CM-226 | 22MF | 16V | ELECTRO | |
| | C545 | QCS21HJ-330 | 33PF | 50V | CERAMIC | |
| | C546 | QCS21HJ-330 | 33PF | 50V | CERAMIC | |
| | C547 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C548 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C555 | QCS21HJ-221 | 220PF | 50V | CERAMIC | E |
| | C556 | QCS21HJ-221 | 220PF | 50V | CERAMIC | E |
| | C557 | QCS21HJ-221 | 220PF | 50V | CERAMIC | E |
| | C558 | QCS21HJ-221 | 220PF | 50V | CERAMIC | E |

⚠ : SAFETY PARTS

## Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | R301 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R302 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R303 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R304 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R305 | QRD167J-561 | 560 | 1/6W | CARBON | |
| | R306 | QRD167J-561 | 560 | 1/6W | CARBON | |
| | R307 | QRD167J-393 | 39K | 1/6W | CARBON | |
| | R308 | QRD167J-393 | 39K | 1/6W | CARBON | |
| | R309 | QRD167J-474 | 470K | 1/6W | CARBON | |
| | R310 | QRD167J-474 | 470K | 1/6W | CARBON | |
| | R311 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R312 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R313 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R314 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R315 | QRD167J-221 | 220 | 1/6W | CARBON | A |
| | R315 | QRD167J-221 | 220 | 1/6W | CARBON | B |
| | R315 | QRD167J-221 | 220 | 1/6W | CARBON | C |
| | R315 | QRD167J-221 | 220 | 1/6W | CARBON | D |
| | R315 | QRD167J-221 | 220 | 1/6W | CARBON | F |
| | R315 | QRD167J-222 | 2.2K | 1/6W | CARBON | E |

⚠ : SAFETY PARTS

## Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | R316 | QRD167J-221 | 220 | 1/6W | CARBON | A |
| | R316 | QRD167J-221 | 220 | 1/6W | CARBON | B |
| | R316 | QRD167J-221 | 220 | 1/6W | CARBON | C |
| | R316 | QRD167J-221 | 220 | 1/6W | CARBON | D |
| | R316 | QRD167J-221 | 220 | 1/6W | CARBON | F |
| | R316 | QRD167J-222 | 2.2K | 1/6W | CARBON | E |
| | R317 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R318 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R319 | QRD167J-221 | 220 | 1/6W | CARBON | A |
| | R319 | QRD167J-221 | 220 | 1/6W | CARBON | B |
| | R319 | QRD167J-221 | 220 | 1/6W | CARBON | C |
| | R319 | QRD167J-221 | 220 | 1/6W | CARBON | D |
| | R319 | QRD167J-221 | 220 | 1/6W | CARBON | F |
| | R319 | QRD167J-222 | 2.2K | 1/6W | CARBON | E |
| | R320 | QRD167J-221 | 220 | 1/6W | CARBON | A |
| | R320 | QRD167J-221 | 220 | 1/6W | CARBON | B |
| | R320 | QRD167J-221 | 220 | 1/6W | CARBON | C |
| | R320 | QRD167J-221 | 220 | 1/6W | CARBON | D |
| | R320 | QRD167J-221 | 220 | 1/6W | CARBON | F |
| | R320 | QRD167J-222 | 2.2K | 1/6W | CARBON | E |
| | R321 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R322 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R323 | QRD167J-331 | 330 | 1/6W | CARBON | |
| | R324 | QRD167J-331 | 330 | 1/6W | CARBON | |
| | R327 | QRD167J-124 | 120K | 1/6W | CARBON | |
| | R328 | QRD167J-124 | 120K | 1/6W | CARBON | |
| | R329 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R330 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R331 | QRD167J-124 | 120K | 1/6W | CARBON | |
| | R332 | QRD167J-124 | 120K | 1/6W | CARBON | |
| | R420 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R421 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R422 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R423 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R424 | QRD167J-471 | 470 | 1/6W | CARBON | |
| | R425 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R426 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R427 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R428 | QRD167J-223 | 22K | 1/6W | CARBON | |
| | R430 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R431 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R432 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R433 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R434 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R435 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R436 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R437 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R441 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R442 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R443 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R444 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R445 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R446 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R448 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R449 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R450 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R451 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R452 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R453 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R454 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R455 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R459 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R460 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R461 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R462 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R463 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R464 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R465 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R466 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R467 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R471 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R472 | QRD167J-471 | 470 | 1/6W | CARBON | |
| | R473 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R474 | QRD167J-223 | 22K | 1/6W | CARBON | |
| | R475 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R481 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R482 | QRD167J-472 | 4.7K | 1/6W | CARBON | |
| | R483 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R484 | QRD167J-332 | 3.3K | 1/6W | CARBON | |
| | R485 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R486 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R487 | QRD167J-223 | 22K | 1/6W | CARBON | |
| | R488 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R489 | QRD167J-331 | 330 | 1/6W | CARBON | |
| | R509 | QRD167J-472 | 4.7K | 1/6W | CARBON | |

⚠ : SAFETY PARTS

### Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | R510 | QRD167J-472 | 4.7K | 1/6W | CARBON | |
| | R511 | QRD167J-472 | 4.7K | 1/6W | CARBON | |
| | R512 | QRD167J-472 | 4.7K | 1/6W | CARBON | |
| | R517 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R518 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R519 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R520 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R521 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R522 | QRD167J-104 | 100K | 1/6W | CARBON | |
| ⚠ | R523 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | A |
| ⚠ | R523 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | B |
| ⚠ | R523 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | C |
| ⚠ | R523 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | D |
| ⚠ | R523 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | E |
| ⚠ | R523 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | F |
| ⚠ | R524 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | A |
| ⚠ | R524 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | B |
| ⚠ | R524 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | C |
| ⚠ | R524 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | D |
| ⚠ | R524 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | E |
| ⚠ | R524 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | F |
| ⚠ | R527 | QRD14CJ-391S | 390 | 1/4W | UNF.CARBON | A |
| ⚠ | R527 | QRD14CJ-391S | 390 | 1/4W | UNF.CARBON | B |
| ⚠ | R527 | QRZ0077-391 | 390 | 1/4W | FUSIBLE | C |
| ⚠ | R527 | QRZ0077-391 | 390 | 1/4W | FUSIBLE | D |
| ⚠ | R527 | QRZ0077-391 | 390 | 1/4W | FUSIBLE | E |
| ⚠ | R527 | QRZ0077-391 | 390 | 1/4W | FUSIBLE | F |
| ⚠ | R528 | QRD14CJ-391S | 390 | 1/4W | UNF.CARBON | A |
| ⚠ | R528 | QRD14CJ-391S | 390 | 1/4W | UNF.CARBON | B |
| ⚠ | R528 | QRZ0077-391 | 390 | 1/4W | FUSIBLE | C |
| ⚠ | R528 | QRZ0077-391 | 390 | 1/4W | FUSIBLE | D |
| ⚠ | R528 | QRZ0077-391 | 390 | 1/4W | FUSIBLE | E |
| ⚠ | R528 | QRZ0077-391 | 390 | 1/4W | FUSIBLE | F |
| | VR501 | QVUB01W-EF5D | 250K | | VARIABLE | |
| | VR502 | QVUB01W-EF5D | 250K | | VARIABLE | |
| | VR503 | QVUB01W-EF5D | 250K | | VARIABLE | |
| | VR504 | QVUB01W-EF5D | 250K | | VARIABLE | |
| | VR505 | QVUB01W-EF5D | 250K | | VARIABLE | |
| | VR506 | QVUB01W-EF5D | 250K | | VARIABLE | |
| | VR507 | QVUB01W-EF5D | 250K | | VARIABLE | |

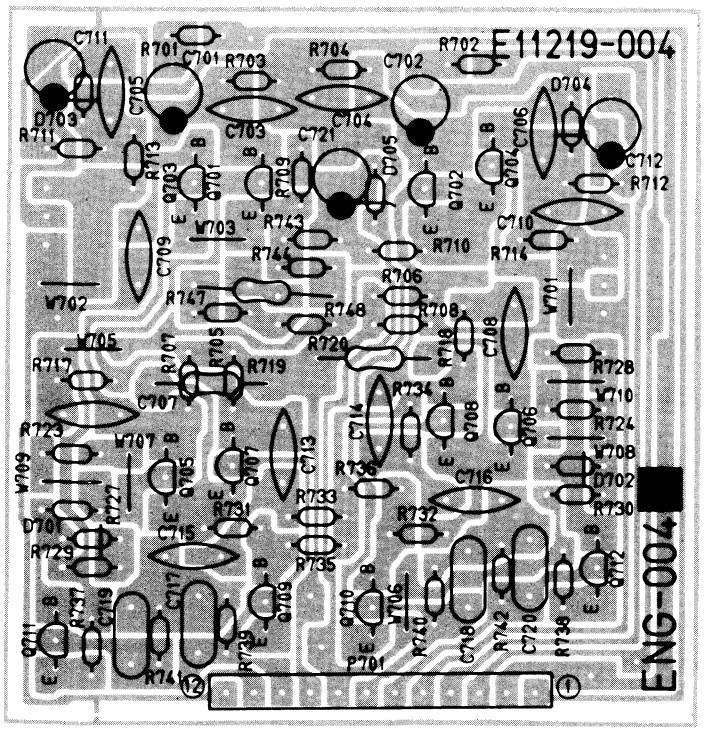
⚠ : SAFETY PARTS

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|---|---|---|---|
| | | E11743-003 | CIRCUIT BOARD | |
| | | E45524-002 | FUSE CLIP | |
| | | E48269-001 | SPACER | C |
| | | E48269-001 | SPACER | D |
| | | E48269-001 | SPACER | E |
| | | E48269-001 | SPACER | F |
| | J301 | EMN00TV-405A | 4P PIN JACK | |
| | J302 | EMN00TV-402A | 4P PIN JACK | |
| | J303 | EMN00TV-405A | 4P PIN JACK | |
| | P303 | EMV7125-015R | CONNECTOR | |
| | P311 | EMV5128-014 | PLUG ASSY | |
| | P312 | EMV5128-016 | PLUG ASSY | |
| | P481 | QMV5004-003K | PLUG ASSY | |
| | P501 | EMV7112-003 | CONNECTOR | |
| | P502 | EMV7112-006 | CONNECTOR | |
| | FW201 | EWR37B-25KST | FLAT WIRE | |
| | FW306 | EWR37B-16KST | FLAT WIRE | A |
| | FW306 | EWR37B-16KST | FLAT WIRE | C |
| | FW306 | EWR37B-16KST | FLAT WIRE | D |
| | FW306 | EWR37B-16KST | FLAT WIRE | E |
| | FW306 | EWR37B-16KST | FLAT WIRE | F |
| | FW306 | EWR39B-16KST | FLAT WIRE | B |
| | FW521 | EWR37B-08SST | FLAT WIRE | |
| | FW522 | EWR37B-08SST | FLAT WIRE | |
| | FW523 | EWR35B-08SST | FLAT WIRE | |
| | FW531 | EWR38B-10KST | FLAT WIRE | |
| | FW532 | EWR37B-30KST | FLAT WIRE | |
| | FW852 | EWR35B-25LST | FLAT WIRE | |
| | LC421 | ELU0002-044 | LCD PANEL | |
| | XT421 | ECX0072-000EM | RESONATOR | |
| | XT441 | ECX0072-000EM | RESONATOR | |

⚠ : SAFETY PARTS

## ■ ENG-004 □ Pre-Drive PC Board Ass'y

**Note:** ENG-004 □ varies according to the areas employed. See note (1) when placing an order.




**Note (1)**

| PC Board Ass'y | Designated Areas |
|---|---|
| ENG-004 Q | U.S.A., Canada |
| ENG-004 R | U.S. Militaly Market, Australia, Continental Europe, Continental Europe (with LW), Italy (with LW), U.K. (with LW), Other Countries |
| ENG-004 S | West Germany |

### Transistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | Q701 | 2SC2240(A,B) | SILICON | TOSHIBA | |
| | Q702 | 2SC2240(A,B) | SILICON | TOSHIBA | |
| | Q703 | 2SC2240(A,B) | SILICON | TOSHIBA | |
| | Q704 | 2SC2240(A,B) | SILICON | TOSHIBA | |
| | Q705 | 2SA1038(S,E) | SILICON | ROHM | |
| | Q706 | 2SA1038(S,E) | SILICON | ROHM | |
| | Q707 | 2SA933LN(R,S) | SILICON | ROHM | |
| | Q708 | 2SA933LN(R,S) | SILICON | ROHM | |
| | Q709 | 2SA1038(S,E) | SILICON | ROHM | |
| | Q710 | 2SA1038(S,E) | SILICON | ROHM | |
| | Q711 | 2SC2389(S,E) | SILICON | ROHM | |
| | Q712 | 2SC2389(S,E) | SILICON | ROHM | |

⚠ : SAFETY PARTS

## Diodes

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | D701 | 1SS133 | SILICON | ROHM | |
| | D702 | 1SS133 | SILICON | ROHM | |
| | D703 | 1SS133 | SILICON | ROHM | R |
| | D703 | 1SS133 | SILICON | ROHM | S |
| | D704 | 1SS133 | SILICON | ROHM | R |
| | D704 | 1SS133 | SILICON | ROHM | S |
| | D705 | MTZ22JC | ZENER | ROHM | |

⚠ : SAFETY PARTS

## Capacitors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | C701 | EEZ1005-106 | 10MF | 100V | ELECTRO | |
| | C702 | EEZ1005-106 | 10MF | 100V | ELECTRO | |
| | C703 | QCS21HJ-271 | 270PF | 50V | CERAMIC | |
| | C704 | QCS21HJ-271 | 270PF | 50V | CERAMIC | |
| | C705 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C706 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C707 | QCY21HK-332 | 3300PF | 50V | CERAMIC | |
| | C708 | QCY21HK-332 | 3300PF | 50V | CERAMIC | |
| | C709 | QCS21HJ-3R0 | 3PF | 50V | CERAMIC | |
| | C710 | QCS21HJ-3R0 | 3PF | 50V | CERAMIC | |
| | C711 | QETB1CM-476 | 47MF | 16V | ELECTRO | |
| | C712 | QETB1CM-476 | 47MF | 16V | ELECTRO | |
| | C713 | QCS32HJ-220 | 22PF | 500V | CERAMIC | |
| | C714 | QCS32HJ-220 | 22PF | 500V | CERAMIC | |
| | C715 | QCS21HJ-121 | 120PF | 50V | CERAMIC | |
| | C716 | QCS21HJ-121 | 120PF | 50V | CERAMIC | |
| | C717 | QFN81HJ-822 | 8200PF | 50V | MYLAR | |
| | C718 | QFN81HJ-822 | 8200PF | 50V | MYLAR | |
| | C719 | QFN81HJ-822 | 8200PF | 50V | MYLAR | |
| | C720 | QFN81HJ-822 | 8200PF | 50V | MYLAR | |
| | C721 | QETB1EM-106 | 10MF | 25V | ELECTRO | |

⚠ : SAFETY PARTS

## Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | R701 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R702 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R703 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R704 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R705 | QRD167J-202 | 2K | 1/6W | CARBON | |
| | R706 | QRD167J-202 | 2K | 1/6W | CARBON | |
| | R707 | QRD167J-202 | 2K | 1/6W | CARBON | |
| | R708 | QRD167J-202 | 2K | 1/6W | CARBON | |
| | R709 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R710 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R711 | QRD167J-182 | 1.8K | 1/6W | CARBON | |
| | R712 | QRD167J-182 | 1.8K | 1/6W | CARBON | |
| | R713 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R714 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R717 | QRD167J-101 | 100 | 1/6W | CARBON | |
| | R718 | QRD167J-101 | 100 | 1/6W | CARBON | |
| ⚠ | R719 | QRD145J-121S | 120 | 1/4W | UNF.CARBON | |
| ⚠ | R720 | QRD145J-121S | 120 | 1/4W | UNF.CARBON | |
| | R723 | QRD144J-562S | 5.6K | 1/4W | CARBON | |
| | R724 | QRD144J-562S | 5.6K | 1/4W | CARBON | |
| | R727 | QRD144J-472S | 4.7K | 1/4W | CARBON | |
| | R728 | QRD144J-472S | 4.7K | 1/4W | CARBON | |
| | R729 | QRD167J-391 | 390 | 1/6W | CARBON | |
| | R730 | QRD167J-391 | 390 | 1/6W | CARBON | |
| | R731 | QRD167J-152 | 1.5K | 1/6W | CARBON | |
| | R732 | QRD167J-152 | 1.5K | 1/6W | CARBON | |
| | R733 | QRD167J-152 | 1.5K | 1/6W | CARBON | |
| | R734 | QRD167J-152 | 1.5K | 1/6W | CARBON | |
| | R735 | QRD167J-333 | 33K | 1/6W | CARBON | |
| | R736 | QRD167J-333 | 33K | 1/6W | CARBON | |
| | R737 | QRD167J-391 | 390 | 1/6W | CARBON | |
| | R738 | QRD167J-391 | 390 | 1/6W | CARBON | |
| | R739 | QRD167J-682 | 6.8K | 1/6W | CARBON | |
| | R740 | QRD167J-682 | 6.8K | 1/6W | CARBON | |
| | R741 | QRD167J-682 | 6.8K | 1/6W | CARBON | |

⚠ : SAFETY PARTS

## Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | R742 | QRD167J-682 | 6.8K | 1/6W | CARBON | |
| | R743 | QRD167J-511 | 510 | 1/6W | CARBON | |
| | R744 | QRD167J-511 | 510 | 1/6W | CARBON | |
| ⚠ | R745 | QRD125J-182 | 1.8K | 1/2W | UNF.CARBON | |
| | R747 | QRD167J-511 | 510 | 1/6W | CARBON | |
| | R748 | QRD167J-511 | 510 | 1/6W | CARBON | |

⚠ : SAFETY PARTS

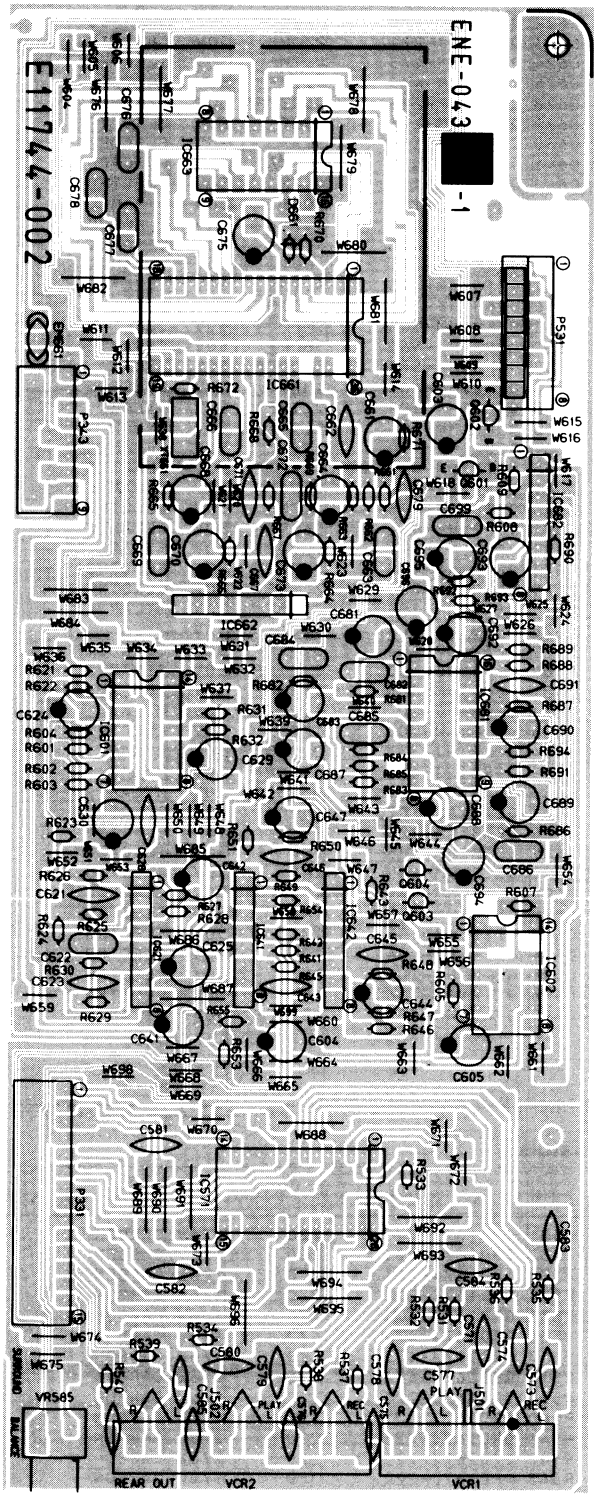
## Others

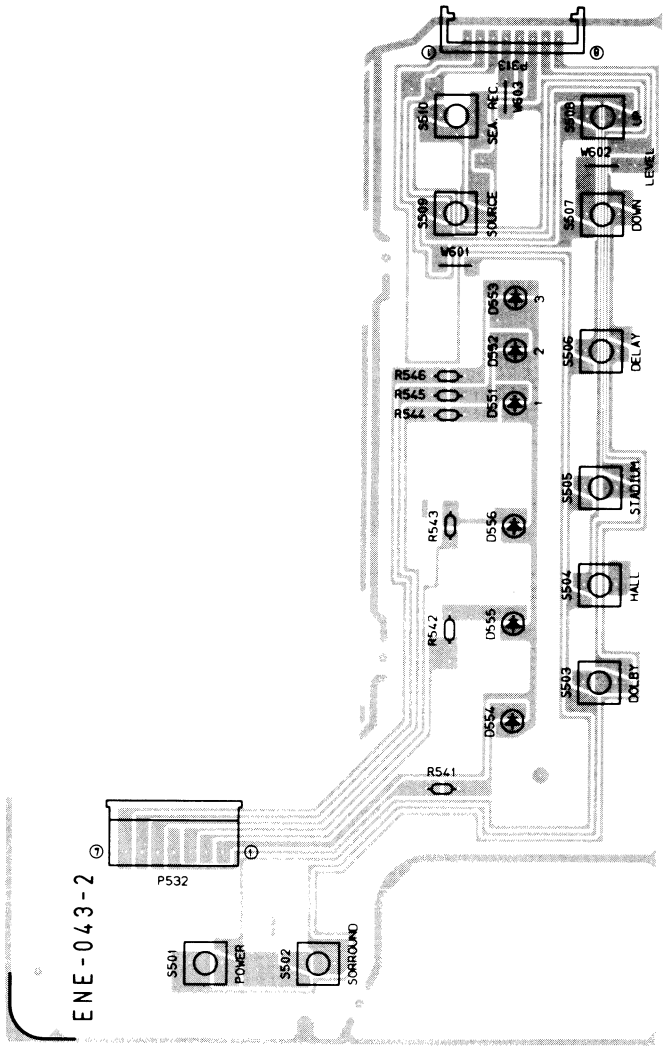
| ⚠ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|---|---|---|---|
| | | E11219-004 | CIRCUIT BOARD | Q |
| | | E11219-004 | CIRCUIT BOARD | R |
| | | E11219-004 | CIRCUIT BOARD | S |
| | P701 | EMV5101-012B | PLUG ASSY | |

⚠ : SAFETY PARTS

## ■ ENE-043 □ Digital Surround PC Board Ass'y

**Note:** ENE-043 □ varies according to the areas employed. See note (1) when placing an order.



### Note (1)

| PC Board Ass'y | Designated Areas |
|---|---|
| ENE-043 A | U.S.A., Canada, U.S. Military Market, Other Countries |
| ENE-043 B | Continental Europe, Australia, Continental Europe (with LW), Italy (with LW), U.K. (with LW) |
| ENE-043 C | West Germany |

### Transistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | Q601 | DTA114YS | SILICON | ROHM | |
| | Q602 | DTC144ES | SILICON | ROHM | |
| | Q603 | DTA114YS | SILICON | ROHM | |
| | Q604 | DTC144ES | SILICON | ROHM | |

⚠ : SAFETY PARTS

### I.C.s

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | IC571 | TC9163N | I.C. | TOSHIBA | |
| | IC601 | LC4966 | I.C. | SANYO | |
| | IC602 | LC4966 | I.C. | SANYO | |
| | IC621 | VC4580L | I.C. | JRC | |
| | IC641 | VC4580L | I.C. | JRC | |
| | IC642 | VC4580L | I.C. | JRC | |
| | IC661 | M50199P | I.C. | MITSUBISHI | |
| | IC662 | M5233L | I.C. | MITSUBISHI | |
| | IC663 | MSM3764A-12RS | I.C. | MITSUBISHI | |
| | IC681 | LA2730 | I.C. | SANYO | |
| | IC682 | M5218L-R | I.C. | MITSUBISHI | |

⚠ : SAFETY PARTS

### Diodes

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | D551 | SLH-34VC3F | L.E.D. | ROHM | |
| | D552 | SLH-34VC3F | L.E.D. | ROHM | |
| | D553 | SLH-34VC3F | L.E.D. | ROHM | |
| | D554 | SLH-34DC3F | L.E.D. | ROHM | |
| | D555 | SLH-34DC3F | L.E.D. | ROHM | |
| | D556 | SLH-34DC3F | L.E.D. | ROHM | |
| | D661 | 1SS133 | SILICON | ROHM | |
| | D662 | MTZ10JC | ZENER | ROHM | |
| | D663 | HTZ10JC | ZENER | ROHM | |

⚠ : SAFETY PARTS

### Capacitors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | C571 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C573 | QCS21HJ-331 | 330PF | 50V | CERAMIC | C |
| | C574 | QCS21HJ-331 | 330PF | 50V | CERAMIC | C |
| | C575 | QCS21HJ-331 | 330PF | 50V | CERAMIC | C |
| | C576 | QCS21HJ-331 | 330PF | 50V | CERAMIC | C |
| | C577 | QCS21HJ-101 | 100PF | 50V | CERAMIC | C |
| | C578 | QCS21HJ-101 | 100PF | 50V | CERAMIC | C |
| | C579 | QCS21HJ-101 | 100PF | 50V | CERAMIC | C |
| | C580 | QCS21HJ-101 | 100PF | 50V | CERAMIC | C |
| | C581 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C582 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C585 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C603 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C604 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C605 | QETB1EM-106 | 10MF | 25V | ELECTRO | |

⚠ : SAFETY PARTS

### Capacitors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | C621 | QFN81HK-333 | 0.033MF | 50V | MYLAR | |
| | C622 | QCY21HK-472 | 4700PF | 50V | CERAMIC | |
| | C623 | QCS21HJ-271 | 270PF | 50V | CERAMIC | |
| | C624 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C625 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C628 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C629 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C630 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C641 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C642 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C643 | QCS21HJ-100 | 10PF | 50V | CERAMIC | |
| | C644 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C645 | QCS21HJ-470 | 47PF | 50V | CERAMIC | |
| | C646 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C647 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C660 | QFN81HK-103 | 0.01MF | 50V | MYLAR | |
| | C661 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C662 | QCS21HJ-561 | 560PF | 50V | CERAMIC | |
| | C663 | QFN81HK-562 | 5600PF | 50V | MYLAR | |
| | C664 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C665 | QFN81HK-104 | 0.1MF | 50V | MYLAR | |
| | C666 | QFN81HK-104 | 0.1MF | 50V | MYLAR | |
| | C667 | QCS21HJ-150 | 15PF | 50V | CERAMIC | |
| | C668 | QETB1AM-476 | 47MF | 10V | ELECTRO | |
| | C669 | QCF21HP-103 | 0.01MF | 50V | CERAMIC | |
| | C670 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C671 | QCS21HJ-561 | 560PF | 50V | CERAMIC | |
| | C672 | QFN81HJ-472 | 4700PF | 50V | MYLAR | |
| | C673 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C675 | QETB1HM-225 | 2.2MF | 50V | ELECTRO | |
| | C677 | QFN81HK-104 | 0.1MF | 50V | MYLAR | |
| | C678 | QFN81HK-104 | 0.1MF | 50V | MYLAR | |
| | C679 | QCF21HP-103 | 0.01MF | 50V | CERAMIC | |
| | C680 | QCF21HP-103 | 0.01MF | 50V | CERAMIC | |
| | C681 | QEB51HM-334 | 0.33MF | 50V | LLC ELECTR | |
| | C682 | QFN81HJ-104 | 0.1MF | 50V | MYLAR | |
| | C683 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C684 | QFN81HJ-333 | 0.033MF | 50V | MYLAR | |
| | C685 | QFN81HJ-472 | 4700PF | 50V | MYLAR | |
| | C686 | QFN81HJ-333 | 0.033MF | 50V | MYLAR | |
| | C687 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C688 | QETB1CM-226 | 22MF | 16V | ELECTRO | |
| | C689 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C690 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C691 | QCS21HJ-471 | 470PF | 50V | CERAMIC | |
| | C692 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C693 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C694 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C695 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C696 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C699 | QFN81HK-682 | 6800PF | 50V | MYLAR | |

⚠ : SAFETY PARTS

### Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | R531 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R532 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R533 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R534 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R535 | QRD167J-471 | 470 | 1/6W | CARBON | |
| | R536 | QRD167J-471 | 470 | 1/6W | CARBON | |
| | R537 | QRD167J-471 | 470 | 1/6W | CARBON | |
| | R538 | QRD167J-471 | 470 | 1/6W | CARBON | |
| | R539 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R540 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R541 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R542 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R543 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R544 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R545 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R546 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R601 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R602 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R603 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R604 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R605 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R607 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R608 | QRD167J-333 | 33K | 1/6W | CARBON | |
| | R609 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R621 | QRD167J-474 | 470K | 1/6W | CARBON | |

⚠ : SAFETY PARTS

## Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | R622 | QRD167J-223 | 22K | 1/6W | CARBON | |
| | R623 | QRD167J-273 | 27K | 1/6W | CARBON | |
| | R624 | QRD167J-333 | 33K | 1/6W | CARBON | |
| | R625 | QRD167J-223 | 22K | 1/6W | CARBON | |
| | R626 | QRD167J-273 | 27K | 1/6W | CARBON | |
| | R627 | QRD167J-223 | 22K | 1/6W | CARBON | |
| | R628 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R629 | QRD167J-154 | 150K | 1/6W | CARBON | |
| | R630 | QRD167J-394 | 390K | 1/6W | CARBON | |
| | R631 | QRD167J-474 | 470K | 1/6W | CARBON | |
| | R632 | QRD167J-474 | 470K | 1/6W | CARBON | |
| | R641 | QRD167J-223 | 22K | 1/6W | CARBON | |
| | R642 | QRD167J-223 | 22K | 1/6W | CARBON | |
| | R643 | QRD167J-223 | 22K | 1/6W | CARBON | |
| | R645 | QRD167J-223 | 22K | 1/6W | CARBON | |
| | R646 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R648 | QRD167J-823 | 82K | 1/6W | CARBON | |
| | R649 | QRD167J-153 | 15K | 1/6W | CARBON | |
| | R650 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R651 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R653 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R654 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R661 | QRD167J-272 | 2.7K | 1/6W | CARBON | |
| | R662 | QRD167J-153 | 15K | 1/6W | CARBON | |
| | R663 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R664 | QRD167J-153 | 15K | 1/6W | CARBON | |
| | R665 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R666 | QRD167J-272 | 2.7K | 1/6W | CARBON | |
| | R667 | QRD167J-153 | 15K | 1/6W | CARBON | |
| | R668 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R669 | QRD167J-153 | 15K | 1/6W | CARBON | |
| | R670 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R671 | QRD167J-224 | 220K | 1/6W | CARBON | |
| | R672 | QRD167J-105 | 1M | 1/6W | CARBON | |
| | R681 | QRD167J-274 | 270K | 1/6W | CARBON | |
| | R682 | QRD167J-622 | 6.2K | 1/6W | CARBON | |
| | R683 | QRD167J-274 | 270K | 1/6W | CARBON | |
| | R684 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R685 | QRD167J-332 | 3.3K | 1/6W | CARBON | |
| | R686 | QRD167J-181 | 180 | 1/6W | CARBON | |
| | R687 | QRD167J-333 | 33K | 1/6W | CARBON | |
| | R688 | QRD167J-683 | 68K | 1/6W | CARBON | |
| | R689 | QRD167J-223 | 22K | 1/6W | CARBON | |
| | R690 | QRD167J-223 | 22K | 1/6W | CARBON | |
| | R691 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R692 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R693 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R694 | QRD167J-153 | 15K | 1/6W | CARBON | |
| | VR585 | QVAA99W-EF5C | 250K | | VARIABLE | |

⚠ : SAFETY PARTS

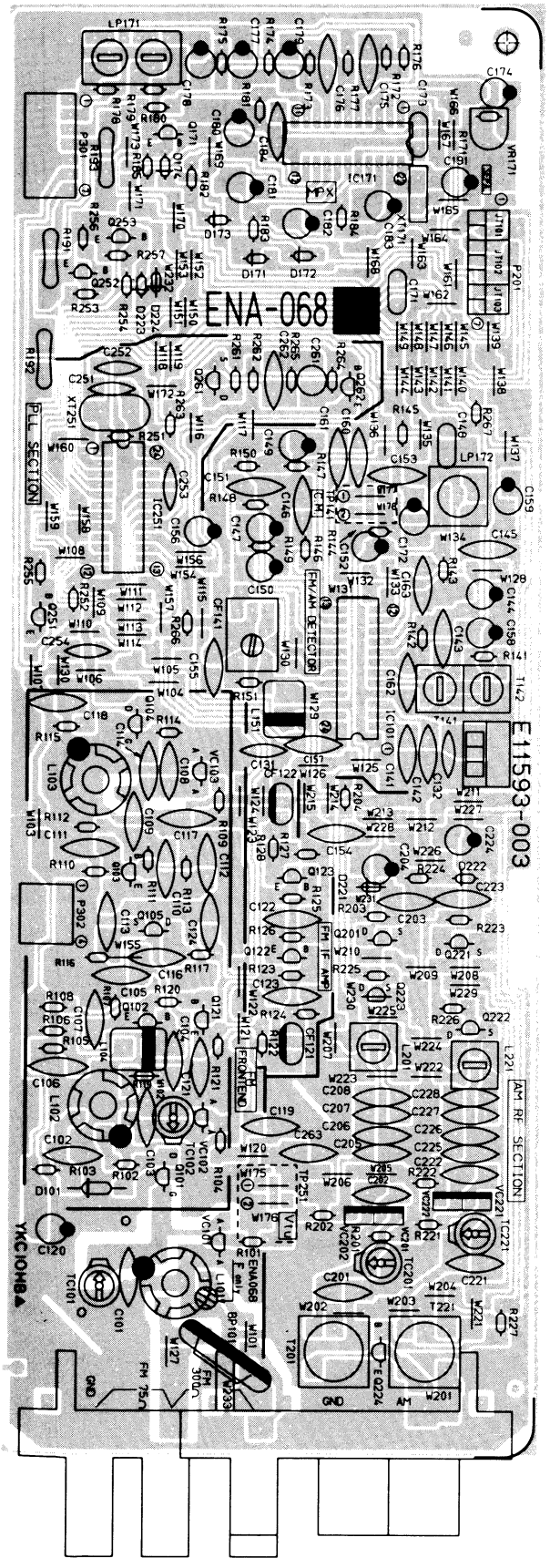
## Others

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|---|---|---|---|
| | | E11744-002 | CIRCUIT BOARD | |
| | | E74854-001 | SHIELD CASE | |
| | J501 | EMN00TV-405A | 4P PIN JACK | |
| | J502 | EMN00TV-602A | 6P PIN JACK | |
| | P313 | EMV5120-008 | PLUG ASSY | |
| | P331 | EMV7125-015R | CONNECTOR | |
| | P343 | EMV7125-009R | CONNECTOR | |
| | P531 | EMV7112-008 | CONNECTOR | |
| | P532 | EMV7112-007R | CONNECTOR | |
| | S501 | ESP0001-018 | TACT SWITCH | |
| | S502 | ESP0001-018 | TACT SWITCH | |
| | S503 | ESP0001-018 | TACT SWITCH | |
| | S504 | ESP0001-018 | TACT SWITCH | |
| | S505 | ESP0001-018 | TACT SWITCH | |
| | S506 | ESP0001-018 | TACT SWITCH | |
| | S507 | ESP0001-018 | TACT SWITCH | |
| | S508 | ESP0001-018 | TACT SWITCH | |
| | S509 | ESP0001-018 | TACT SWITCH | |
| | S510 | ESP0001-018 | TACT SWITCH | |
| | EM661 | EQF0601-222 | EMI FILTER | |
| | XT661 | ECX0003-280KM | RESONATOR | |

⚠ : SAFETY PARTS

## ■ ENA-068 ☐ World Link Tuner PC Board Ass'y

**Note**: ENA-068 ☐ varies according to the areas employed. See note (1) when placing an order.




**Note (1)**

| PC Board Ass'y | Designated Areas |
|---|---|
| ENA-068 H | U.S.A., Canada |
| ENA-068 I | U.S. Military Market & Other Countries |
| ENA-068 J | Australia |
| ENA-068 K | Continental Europe |
| ENA-068 L | Italy (with LW), U.K. (with LW) |
| ENA-068 M | Continental Europe (with LW) |
| ENA-068 N | West Germany |

**Transistors**

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | Q101 | 2SK606(Q,R) | F.E.T | MATSUSHITA | J |
| | Q101 | 2SK606(Q,R) | F.E.T | MATSUSHITA | K |
| | Q101 | 2SK606(Q,R) | F.E.T | MATSUSHITA | L |
| | Q101 | 2SK606(Q,R) | F.E.T | MATSUSHITA | M |
| | Q101 | 2SK606(Q,R) | F.E.T | MATSUSHITA | N |
| | Q101 | 2SK606(Q,R,S) | F.E.T | MATSUSHITA | H |
| | Q101 | 2SK606(Q,R,S) | F.E.T | MATSUSHITA | I |
| | Q102 | 2SC535(B,C) | SILICON | HITACHI | |
| | Q103 | 2SC461(C) | SILICON | HITACHI | |
| | Q104 | 2SK606(Q,R) | F.E.T | MATSUSHITA | J |
| | Q104 | 2SK606(Q,R) | F.E.T | MATSUSHITA | K |
| | Q104 | 2SK606(Q,R) | F.E.T | MATSUSHITA | L |
| | Q104 | 2SK606(Q,R) | F.E.T | MATSUSHITA | M |
| | Q104 | 2SK606(Q,R) | F.E.T | MATSUSHITA | N |
| | Q104 | 2SK606(Q,R,S) | F.E.T | MATSUSHITA | H |
| | Q104 | 2SK606(Q,R,S) | F.E.T | MATSUSHITA | I |
| | Q105 | 2SK606(Q,R) | F.E.T | MATSUSHITA | N |
| | Q121 | 2SC461(B,C) | SILICON | HITACHI | |
| | Q122 | 2SC535(B,C) | SILICON | HITACHI | |
| | Q123 | 2SC461(B,C) | SILICON | HITACHI | |
| | Q171 | DTC114YS | SILICON | ROHM | |
| | Q201 | 2SK301(Q,R) | F.E.T | MATSUSHITA | |
| | Q221 | 2SK301(Q,R) | F.E.T | MATSUSHITA | L |
| | Q221 | 2SK301(Q,R) | F.E.T | MATSUSHITA | M |
| | Q222 | 2SK301(P,Q) | F.E.T | MATSUSHITA | L |
| | Q222 | 2SK301(P,Q) | F.E.T | MATSUSHITA | M |
| | Q223 | 2SK301(P,Q) | F.E.T | MATSUSHITA | L |
| | Q223 | 2SK301(P,Q) | F.E.T | MATSUSHITA | M |
| | Q224 | 2SD1302(S,T) | SILICON | MATSUSHITA | L |
| | Q224 | 2SD1302(S,T) | SILICON | MATSUSHITA | M |
| | Q251 | 2SA564A(R,S) | SILICON | MATSUSHITA | |
| | Q252 | 2SA564A(R,S) | SILICON | MATSUSHITA | |
| | Q253 | 2SA564A(R,S) | SILICON | MATSUSHITA | L |
| | Q253 | 2SA564A(R,S) | SILICON | MATSUSHITA | M |
| | Q261 | 2SK301(Q1) | F.E.T | MATSUSHITA | |
| | Q262 | 2SC458(D) | SILICON | HITACHI | |

⚠ : SAFETY PARTS

**I.C.s**

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | IC101 | LA1266A | I.C. | SANYO | |
| | IC171 | LA3401 | I.C. | SANYO | |
| | IC251 | LC7217 | I.C. | SANYO | |

⚠ : SAFETY PARTS

## Diodes

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | MAKER | AREA |
|---|---|---|---|---|---|
| | D101 | 1SS108 | SILICON | HITACHI | H |
| | D101 | 1SS108 | SILICON | HITACHI | I |
| | D101 | 1SS108 | SILICON | HITACHI | J |
| | D101 | 1SS108 | SILICON | HITACHI | K |
| | D101 | 1SS108 | SILICON | HITACHI | L |
| | D101 | 1SS108 | SILICON | HITACHI | M |
| | D171 | 1SS119 | SILICON | HITACHI | |
| | D172 | 1SS119 | SILICON | HITACHI | |
| | D173 | 1SS119 | SILICON | HITACHI | |
| | D174 | 1SS119 | SILICON | HITACHI | |
| | D221 | 1SS119 | SILICON | HITACHI | L |
| | D221 | 1SS119 | SILICON | HITACHI | M |
| | D222 | 1SS119 | SILICON | HITACHI | L |
| | D222 | 1SS119 | SILICON | HITACHI | M |
| | D223 | 1SS119 | SILICON | HITACHI | L |
| | D223 | 1SS119 | SILICON | HITACHI | M |
| | D224 | 1SS119 | SILICON | HITACHI | L |
| | D224 | 1SS119 | SILICON | HITACHI | M |
| | VC101 | SVC202(AB) | VARICAP | SANYO | |
| | VC102 | SVC202(AB) | VARICAP | SANYO | |
| | VC103 | SVC202(AB) | VARICAP | SANYO | |
| | VC201 | KV1236Z | VARICAP | TOKO | |
| | VC202 | KV1236Z | VARICAP | TOKO | |
| | VC221 | KV1236Z | VARICAP | TOKO | L |
| | VC221 | KV1236Z | VARICAP | TOKO | M |
| | VC222 | KV1236Z | VARICAP | TOKO | L |
| | VC222 | KV1236Z | VARICAP | TOKO | M |

⚠ : SAFETY PARTS

## Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | R101 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R102 | QRD167J-330 | 33 | 1/6W | CARBON | |
| | R103 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R104 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R105 | QRD167J-332 | 3.3K | 1/6W | CARBON | |
| | R106 | QRD167J-223 | 22K | 1/6W | CARBON | |
| | R107 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R108 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R109 | QRD167J-562 | 5.6K | 1/6W | CARBON | |
| | R110 | QRD167J-561 | 560 | 1/6W | CARBON | |
| | R111 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R112 | QRD167J-682 | 6.8K | 1/6W | CARBON | |
| | R113 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R114 | QRD167J-224 | 220K | 1/6W | CARBON | |
| | R115 | QRD167J-331 | 330 | 1/6W | CARBON | |
| | R116 | QRD167J-224 | 220K | 1/6W | CARBON | N |
| | R117 | QRD167J-331 | 330 | 1/6W | CARBON | N |
| | R120 | QRD167J-330 | 33 | 1/6W | CARBON | |
| | R121 | QRD167J-332 | 3.3K | 1/6W | CARBON | |
| | R122 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R123 | QRD167J-272 | 2.7K | 1/6W | CARBON | |
| | R124 | QRD167J-391 | 390 | 1/6W | CARBON | |
| | R125 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R126 | QRD167J-681 | 680 | 1/6W | CARBON | |
| | R127 | QRD167J-332 | 3.3K | 1/6W | CARBON | |
| | R128 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R141 | QRD167J-822 | 8.2K | 1/6W | CARBON | |
| | R142 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R143 | QRD167J-183 | 18K | 1/6W | CARBON | H |
| | R143 | QRD167J-333 | 33K | 1/6W | CARBON | I |
| | R143 | QRD167J-333 | 33K | 1/6W | CARBON | J |
| | R143 | QRD167J-333 | 33K | 1/6W | CARBON | K |
| | R143 | QRD167J-333 | 33K | 1/6W | CARBON | L |
| | R143 | QRD167J-333 | 33K | 1/6W | CARBON | M |
| | R143 | QRD167J-333 | 33K | 1/6W | CARBON | N |
| | R144 | QRD167J-561 | 560 | 1/6W | CARBON | |
| | R145 | QRD167J-103 | 10K | 1/6W | CARBON | H |
| | R145 | QRD167J-103 | 10K | 1/6W | CARBON | I |
| | R145 | QRD167J-333 | 33K | 1/6W | CARBON | J |
| | R145 | QRD167J-333 | 33K | 1/6W | CARBON | K |
| | R145 | QRD167J-333 | 33K | 1/6W | CARBON | L |
| | R145 | QRD167J-333 | 33K | 1/6W | CARBON | M |
| | R145 | QRD167J-333 | 33K | 1/6W | CARBON | N |
| | R146 | QRD167J-221 | 220 | 1/6W | CARBON | |
| | R147 | QRD167J-103 | 10K | 1/6W | CARBON | |

⚠ : SAFETY PARTS

## Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | R148 | QRD167J-223 | 22K | 1/6W | CARBON | |
| | R149 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R150 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R151 | QRD167J-334 | 330K | 1/6W | CARBON | |
| | R171 | QRD167J-393 | 39K | 1/6W | CARBON | H |
| | R171 | QRD167J-393 | 39K | 1/6W | CARBON | I |
| | R172 | QRD167J-134 | 130K | 1/6W | CARBON | H |
| | R172 | QRD167J-134 | 130K | 1/6W | CARBON | I |
| | R172 | QRD167J-184 | 180K | 1/6W | CARBON | J |
| | R172 | QRD167J-184 | 180K | 1/6W | CARBON | K |
| | R172 | QRD167J-184 | 180K | 1/6W | CARBON | L |
| | R172 | QRD167J-184 | 180K | 1/6W | CARBON | M |
| | R172 | QRD167J-184 | 180K | 1/6W | CARBON | N |
| | R173 | QRD167J-134 | 130K | 1/6W | CARBON | H |
| | R173 | QRD167J-134 | 130K | 1/6W | CARBON | I |
| | R173 | QRD167J-184 | 180K | 1/6W | CARBON | J |
| | R173 | QRD167J-184 | 180K | 1/6W | CARBON | K |
| | R173 | QRD167J-184 | 180K | 1/6W | CARBON | L |
| | R173 | QRD167J-184 | 180K | 1/6W | CARBON | M |
| | R173 | QRD167J-184 | 180K | 1/6W | CARBON | N |
| | R174 | QRD167J-332 | 3.3K | 1/6W | CARBON | |
| | R175 | QRD167J-332 | 3.3K | 1/6W | CARBON | |
| | R176 | QRD167J-184 | 180K | 1/6W | CARBON | H |
| | R176 | QRD167J-184 | 180K | 1/6W | CARBON | I |
| | R176 | QRD167J-274 | 270K | 1/6W | CARBON | J |
| | R176 | QRD167J-274 | 270K | 1/6W | CARBON | K |
| | R176 | QRD167J-274 | 270K | 1/6W | CARBON | L |
| | R176 | QRD167J-274 | 270K | 1/6W | CARBON | M |
| | R176 | QRD167J-274 | 270K | 1/6W | CARBON | N |
| | R177 | QRD167J-184 | 180K | 1/6W | CARBON | H |
| | R177 | QRD167J-184 | 180K | 1/6W | CARBON | I |
| | R177 | QRD167J-274 | 270K | 1/6W | CARBON | J |
| | R177 | QRD167J-274 | 270K | 1/6W | CARBON | K |
| | R177 | QRD167J-274 | 270K | 1/6W | CARBON | L |
| | R177 | QRD167J-274 | 270K | 1/6W | CARBON | M |
| | R177 | QRD167J-274 | 270K | 1/6W | CARBON | N |
| | R178 | QRD167J-682 | 6.8K | 1/6W | CARBON | |
| | R179 | QRD167J-682 | 6.8K | 1/6W | CARBON | |
| | R180 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R181 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R182 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R183 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R184 | QRD167J-562 | 5.6K | 1/6W | CARBON | |
| | R185 | QRD167J-562 | 5.6K | 1/6W | CARBON | |
| ⚠ | R191 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | H |
| ⚠ | R191 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | I |
| ⚠ | R191 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | J |
| ⚠ | R191 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | K |
| ⚠ | R191 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | L |
| ⚠ | R191 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | M |
| ⚠ | R191 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | N |
| ⚠ | R192 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | H |
| ⚠ | R192 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | I |
| ⚠ | R192 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | J |
| ⚠ | R192 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | K |
| ⚠ | R192 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | L |
| ⚠ | R192 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | M |
| ⚠ | R192 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | N |
| ⚠ | R193 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | H |
| ⚠ | R193 | QRD14CJ-680S | 68 | 1/4W | UNF.CARBON | I |
| ⚠ | R193 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | J |
| ⚠ | R193 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | K |
| ⚠ | R193 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | L |
| ⚠ | R193 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | M |
| ⚠ | R193 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | N |
| | R201 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R202 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R203 | QRD167J-331 | 330 | 1/6W | CARBON | |
| | R204 | QRD167J-330 | 33 | 1/6W | CARBON | |
| | R221 | QRD167J-103 | 10K | 1/6W | CARBON | L |
| | R221 | QRD167J-103 | 10K | 1/6W | CARBON | M |
| | R222 | QRD167J-473 | 47K | 1/6W | CARBON | L |
| | R222 | QRD167J-473 | 47K | 1/6W | CARBON | M |
| | R223 | QRD167J-331 | 330 | 1/6W | CARBON | L |
| | R223 | QRD167J-331 | 330 | 1/6W | CARBON | M |
| | R224 | QRD167J-103 | 10K | 1/6W | CARBON | L |
| | R224 | QRD167J-103 | 10K | 1/6W | CARBON | M |
| | R225 | QRD167J-103 | 10K | 1/6W | CARBON | L |
| | R225 | QRD167J-103 | 10K | 1/6W | CARBON | M |
| | R226 | QRD167J-103 | 10K | 1/6W | CARBON | L |
| | R226 | QRD167J-103 | 10K | 1/6W | CARBON | M |
| | R227 | QRD167J-472 | 4.7K | 1/6W | CARBON | L |
| | R227 | QRD167J-472 | 4.7K | 1/6W | CARBON | M |
| | R251 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R252 | QRD167J-103 | 10K | 1/6W | CARBON | |

⚠ : SAFETY PARTS

## Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | R253 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R254 | QRD167J-103 | 10K | 1/6W | CARBON | L |
| | R254 | QRD167J-103 | 10K | 1/6W | CARBON | M |
| | R255 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R256 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R257 | QRD167J-473 | 47K | 1/6W | CARBON | L |
| | R257 | QRD167J-473 | 47K | 1/6W | CARBON | M |
| | R261 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R262 | QRD167J-271 | 270 | 1/6W | CARBON | |
| | R263 | QRD167J-103 | 10K | 1/6W | CARBON | H |
| | R263 | QRD167J-103 | 10K | 1/6W | CARBON | I |
| | R263 | QRD167J-103 | 10K | 1/6W | CARBON | J |
| | R263 | QRD167J-103 | 10K | 1/6W | CARBON | K |
| | R263 | QRD167J-103 | 10K | 1/6W | CARBON | N |
| | R263 | QRD167J-222 | 2.2K | 1/6W | CARBON | L |
| | R263 | QRD167J-222 | 2.2K | 1/6W | CARBON | M |
| | R264 | QRD167J-472 | 4.7K | 1/6W | CARBON | |
| | R265 | QRD167J-332 | 3.3K | 1/6W | CARBON | H |
| | R265 | QRD167J-332 | 3.3K | 1/6W | CARBON | I |
| | R265 | QRD167J-332 | 3.3K | 1/6W | CARBON | J |
| | R265 | QRD167J-332 | 3.3K | 1/6W | CARBON | K |
| | R265 | QRD167J-332 | 3.3K | 1/6W | CARBON | N |
| | R265 | QRD167J-822 | 8.2K | 1/6W | CARBON | L |
| | R265 | QRD167J-822 | 8.2K | 1/6W | CARBON | M |
| | R266 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R267 | QRD167J-154 | 150K | 1/6W | CARBON | |
| | VR171 | QVZ3518-104 | 100K | 0.1W | VARIABLE | J |
| | VR171 | QVZ3518-104 | 100K | 0.1W | VARIABLE | K |
| | VR171 | QVZ3518-104 | 100K | 0.1W | VARIABLE | L |
| | VR171 | QVZ3518-104 | 100K | 0.1W | VARIABLE | M |
| | VR171 | QVZ3518-104 | 100K | 0.1W | VARIABLE | N |

⚠ : SAFETY PARTS

## Capacitors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | C101 | QCS21HJ-3R0 | 3PF | 50V | CERAMIC | N |
| | C102 | QCF21HP-102 | 1000PF | 50V | CERAMIC | |
| | C103 | QCS21HJ-5R0 | 5PF | 50V | CERAMIC | |
| | C104 | QCS21HJ-2R0 | 2PF | 50V | CERAMIC | |
| | C105 | QCS21HJ-2R0 | 2PF | 50V | CERAMIC | H |
| | C105 | QCS21HJ-2R0 | 2PF | 50V | CERAMIC | I |
| | C105 | QCS21HJ-2R0 | 2PF | 50V | CERAMIC | J |
| | C105 | QCS21HJ-2R0 | 2PF | 50V | CERAMIC | K |
| | C105 | QCS21HJ-2R0 | 2PF | 50V | CERAMIC | L |
| | C105 | QCS21HJ-2R0 | 2PF | 50V | CERAMIC | M |
| | C106 | QCS21HJ-151 | 150PF | 50V | CERAMIC | |
| | C107 | QCF21HP-103 | 0.01MF | 50V | CERAMIC | |
| | C108 | QCT26TH-100 | 10PF | 50V | CERAMIC | |
| | C109 | QCT26CH-7R0 | 7PF | 50V | CERAMIC | |
| | C110 | QCT26CH-220 | 22PF | 50V | CERAMIC | |
| | C111 | QCF21HP-103 | 0.01MF | 50V | CERAMIC | |
| | C112 | QCT26CH-100 | 10PF | 50V | CERAMIC | |
| | C113 | QCS21HJ-2R0 | 2PF | 50V | CERAMIC | H |
| | C113 | QCS21HJ-2R0 | 2PF | 50V | CERAMIC | I |
| | C113 | QCS21HJ-2R0 | 2PF | 50V | CERAMIC | J |
| | C113 | QCS21HJ-2R0 | 2PF | 50V | CERAMIC | K |
| | C113 | QCS21HJ-2R0 | 2PF | 50V | CERAMIC | L |
| | C113 | QCS21HJ-2R0 | 2PF | 50V | CERAMIC | M |
| | C113 | QCS21HJ-4R0 | 4PF | 50V | CERAMIC | N |
| | C114 | QCT26CH-2R0 | 2PF | 50V | CERAMIC | |
| | C116 | QCS21HJ-4R0 | 4PF | 50V | CERAMIC | N |
| | C117 | QCC21EM-473 | 0.047MF | 25V | CERAMIC | |
| | C118 | QCF21HP-103 | 0.01MF | 50V | CERAMIC | |
| | C119 | QCS21HJ-101 | 100PF | 50V | CERAMIC | N |
| | C120 | QETB1EM-226 | 22MF | 25V | ELECTRO | |
| | C121 | QCS21HJ-220 | 22PF | 50V | CERAMIC | |
| | C122 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C123 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C131 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C132 | QCZ0205-155 | 1.5MF | 25V | CERAMIC | |
| | C141 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C142 | QCC21EM-223 | 0.022MF | 25V | CERAMIC | |
| | C143 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C144 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C145 | QCS21HJ-101 | 100PF | 50V | CERAMIC | J |
| | C145 | QCS21HJ-101 | 100PF | 50V | CERAMIC | K |
| | C145 | QCS21HJ-101 | 100PF | 50V | CERAMIC | L |
| | C145 | QCS21HJ-101 | 100PF | 50V | CERAMIC | M |
| | C145 | QCS21HJ-101 | 100PF | 50V | CERAMIC | N |
| | C145 | QCS21HJ-221 | 220PF | 50V | CERAMIC | H |

⚠ : SAFETY PARTS

## Capacitors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | C145 | QCS21HJ-221 | 220PF | 50V | CERAMIC | I |
| | C146 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C147 | QETB1HM-225 | 2.2MF | 50V | ELECTRO | |
| | C148 | QFN81HK-332 | 3300PF | 50V | MYLAR | |
| | C149 | QETB1HM-225 | 2.2MF | 50V | ELECTRO | |
| | C150 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C151 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C152 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C153 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C154 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C155 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C156 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C157 | QCY21HK-102 | 1000PF | 50V | CERAMIC | |
| | C158 | QETB1EM-226 | 22MF | 25V | ELECTRO | |
| | C159 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C160 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C161 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C162 | QCC21EM-223 | 0.022MF | 25V | CERAMIC | |
| | C163 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C171 | QFN81HK-223 | 0.022MF | 50V | MYLAR | J |
| | C171 | QFN81HK-223 | 0.022MF | 50V | MYLAR | K |
| | C171 | QFN81HK-223 | 0.022MF | 50V | MYLAR | L |
| | C171 | QFN81HK-223 | 0.022MF | 50V | MYLAR | M |
| | C171 | QFN81HK-223 | 0.022MF | 50V | MYLAR | N |
| | C171 | QFN81HK-333 | 0.033MF | 50V | MYLAR | H |
| | C171 | QFN81HK-333 | 0.033MF | 50V | MYLAR | I |
| | C172 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C173 | QFN81HK-473 | 0.047MF | 50V | MYLAR | |
| | C174 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C175 | QCS21HJ-271 | 270PF | 50V | CERAMIC | J |
| | C175 | QCS21HJ-271 | 270PF | 50V | CERAMIC | K |
| | C175 | QCS21HJ-271 | 270PF | 50V | CERAMIC | L |
| | C175 | QCS21HJ-271 | 270PF | 50V | CERAMIC | M |
| | C175 | QCS21HJ-271 | 270PF | 50V | CERAMIC | N |
| | C175 | QCS21HJ-561 | 560PF | 50V | CERAMIC | H |
| | C175 | QCS21HJ-561 | 560PF | 50V | CERAMIC | I |
| | C176 | QCS21HJ-271 | 270PF | 50V | CERAMIC | J |
| | C176 | QCS21HJ-271 | 270PF | 50V | CERAMIC | K |
| | C176 | QCS21HJ-271 | 270PF | 50V | CERAMIC | L |
| | C176 | QCS21HJ-271 | 270PF | 50V | CERAMIC | M |
| | C176 | QCS21HJ-271 | 270PF | 50V | CERAMIC | N |
| | C176 | QCS21HJ-561 | 560PF | 50V | CERAMIC | H |
| | C176 | QCS21HJ-561 | 560PF | 50V | CERAMIC | I |
| | C177 | QETB1HM-225 | 2.2MF | 50V | ELECTRO | |
| | C178 | QETB1HM-225 | 2.2MF | 50V | ELECTRO | |
| | C179 | QETB1HM-225 | 2.2MF | 50V | ELECTRO | |
| | C180 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C181 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C182 | QETB1HM-474 | 0.47MF | 50V | ELECTRO | |
| | C183 | QETB1HM-225 | 2.2MF | 50V | ELECTRO | |
| | C184 | QCY21HK-102 | 1000PF | 50V | CERAMIC | |
| | C191 | QETB1EM-226 | 22MF | 25V | ELECTRO | |
| | C202 | QCC21EM-223 | 0.022MF | 25V | CERAMIC | |
| | C203 | QCS21HJ-561 | 560PF | 50V | CERAMIC | |
| | C204 | QETB1EM-226 | 22MF | 25V | ELECTRO | |
| | C205 | QCT26CH-100 | 10PF | 50V | CERAMIC | |
| | C206 | QCT26CH-100 | 10PF | 50V | CERAMIC | |
| | C207 | QCT26CH-221 | 220PF | 50V | CERAMIC | |
| | C208 | QCT26CH-271 | 270PF | 50V | CERAMIC | |
| | C221 | QCS21HJ-330 | 33PF | 50V | CERAMIC | L |
| | C221 | QCS21HJ-330 | 33PF | 50V | CERAMIC | M |
| | C222 | QCC21EM-473 | 0.047MF | 25V | CERAMIC | L |
| | C222 | QCC21EM-473 | 0.047MF | 25V | CERAMIC | M |
| | C223 | QCF21HP-103 | 0.01MF | 50V | CERAMIC | L |
| | C223 | QCF21HP-103 | 0.01MF | 50V | CERAMIC | M |
| | C224 | QETB1EM-226 | 22MF | 25V | ELECTRO | L |
| | C224 | QETB1EM-226 | 22MF | 25V | ELECTRO | M |
| | C225 | QCT26CH-680 | 68PF | 50V | CERAMIC | L |
| | C225 | QCT26CH-680 | 68PF | 50V | CERAMIC | M |
| | C226 | QCT26CH-7R0 | 7PF | 50V | CERAMIC | L |
| | C226 | QCT26CH-7R0 | 7PF | 50V | CERAMIC | M |
| | C227 | QCT26CH-150 | 15PF | 50V | CERAMIC | L |
| | C227 | QCT26CH-150 | 15PF | 50V | CERAMIC | M |
| | C228 | QCT26CH-151 | 150PF | 50V | CERAMIC | L |
| | C228 | QCT26CH-151 | 150PF | 50V | CERAMIC | M |
| | C251 | QCS21HJ-180 | 18PF | 50V | CERAMIC | |
| | C252 | QCS21HJ-180 | 18PF | 50V | CERAMIC | |
| | C253 | QCC21EM-473 | 0.047MF | 25V | CERAMIC | |
| | C254 | QCF21HP-103 | 0.01MF | 50V | CERAMIC | |
| | C261 | QEN51HM-474 | 0.47MF | 50V | NON POLE | |
| | C262 | QCY21HK-102 | 1000PF | 50V | CERAMIC | |
| | C263 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | TC101 | ENZ1003-003 | | | TRIMMER | |
| | TC102 | ENZ1003-003 | | | TRIMMER | |
| | TC201 | ENZ1003-006 | | | TRIMMER | |
| | TC221 | ENZ1003-006 | | | TRIMMER | L |
| | TC221 | ENZ1003-006 | | | TRIMMER | M |

⚠ : SAFETY PARTS

## Others

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|---|---|---|---|
| | | EMB41YV-301K | ANTENNA TERMINAL | |
| | | EMB41YV-501K | ANTENNA TERMINAL | H |
| | | EMB41YV-501K | ANTENNA TERMINAL | I |
| | | EMB41YV-501K | ANTENNA TERMINAL | J |
| | | EMB41YV-501K | ANTENNA TERMINAL | K |
| | | EMB41YV-501K | ANTENNA TERMINAL | L |
| | | E11593-003 | CIRCUIT BOARD | |
| | | E304645-001 | SHIELD CASE | H |
| | | E304645-001 | SHIELD CASE | I |
| | | E304645-001 | SHIELD CASE | J |
| | | E304645-001 | SHIELD CASE | K |
| | | E304645-001 | SHIELD CASE | L |
| | | E304645-001 | SHIELD CASE | M |
| | | E304645-002 | SHIELD CASE | N |
| | | E74134-001 | SHIELD CASE | N |
| | L101 | EQR2306-014 | FM RF COIL | H |
| | L101 | EQR2306-014 | FM RF COIL | I |
| | L101 | EQR2306-014 | FM RF COIL | J |
| | L101 | EQR2306-014 | FM RF COIL | K |
| | L101 | EQR2306-014 | FM RF COIL | L |
| | L101 | EQR2306-014 | FM RF COIL | M |
| | L101 | EQR2306-016 | FM RF COIL | N |
| | L102 | EQR2106-014 | RF COIL | |
| | L103 | EQR2406-004 | FM OSC COIL | |
| | L104 | EQL3001-1R5K | INDUCTOR | |
| | L105 | EQL3001-1R5K | INDUCTOR | N |
| | L151 | EQL3001-102K | INDUCTOR | |
| | L201 | EQR1207-009 | MW OSC COIL | |
| | L221 | EQR1307-002 | LW OSC COIL | L |
| | L221 | EQR1307-002 | LW OSC COIL | M |

⚠ : SAFETY PARTS

## Others

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|---|---|---|---|
| | P201 | EMV7112-007 | CONNECTOR | |
| | P202 | EMV7112-003R | CONNECTOR | |
| | P301 | EMV7125-007R | CONNECTOR | |
| | P302 | EMV7125-004R | CONNECTOR | |
| | T141 | EQT2140-012 | I.F. TRANSFORMER | |
| | T142 | EQT2140-013 | I.F. TRANSFORMER | |
| | T201 | EQR1111-006 | AM RF COIL | |
| | T221 | EQR1111-005 | AM RF COIL | L |
| | T221 | EQR1111-005 | AM RF COIL | M |
| | BP101 | EQF0201-006 | BAND PASS FILTER | N |
| | CF121 | ECB2118-001R | CERAMIC FILTER | J |
| | CF121 | ECB2118-001R | CERAMIC FILTER | K |
| | CF121 | ECB2118-001R | CERAMIC FILTER | L |
| | CF121 | ECB2118-001R | CERAMIC FILTER | M |
| | CF121 | ECB2118-001R | CERAMIC FILTER | N |
| | CF121 | ECB2123-001R | CERAMIC FILTER | H |
| | CF121 | ECB2123-001R | CERAMIC FILTER | I |
| | CF122 | ECB2118-001R | CERAMIC FILTER | J |
| | CF122 | ECB2118-001R | CERAMIC FILTER | K |
| | CF122 | ECB2118-001R | CERAMIC FILTER | L |
| | CF122 | ECB2118-001R | CERAMIC FILTER | M |
| | CF122 | ECB2118-001R | CERAMIC FILTER | N |
| | CF122 | ECB2123-001R | CERAMIC FILTER | H |
| | CF122 | ECB2123-001R | CERAMIC FILTER | I |
| | CF141 | ECB1560-006 | CERAMIC FILTER | |
| | LP171 | EQF0101-002 | LOW PASS FILTER | |
| | LP172 | EQF0102-001 | LOW PASS FILTER | N |
| | XT171 | ECX0000-456KR | RESONATOR | |
| | XT251 | ECX0007-200KC | RESONATOR | |

⚠ : SAFETY PARTS

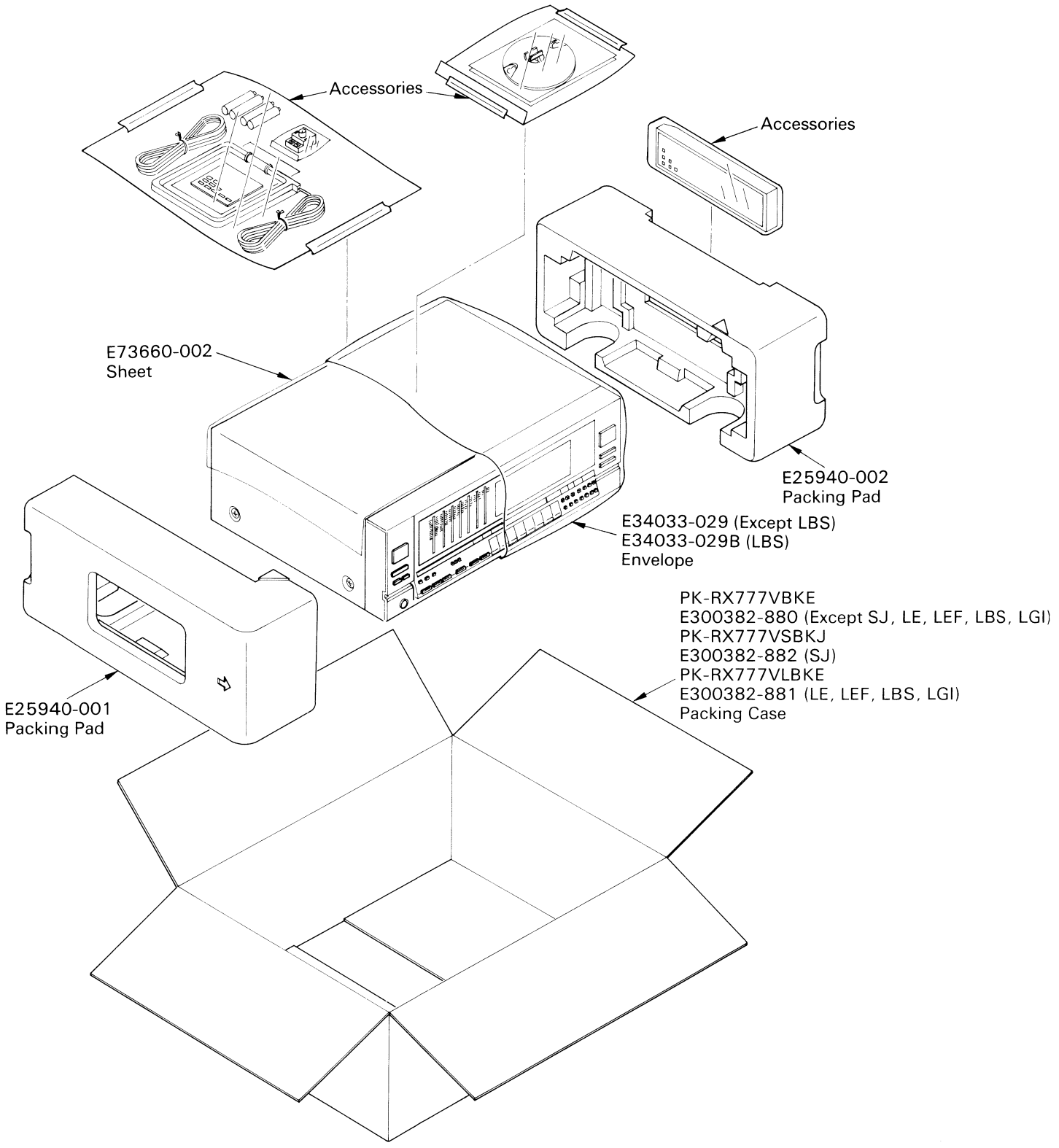
# Accessories List

| ⚠ | Part Number | Part Name | Q'ty | Description | Areas |
|---|---|---|---|---|---|
| | E30580-1473B | Instruction Book | 1 | | J, SJ |
| | E30580-1434B | Instruction Book | 1 | | Except J, SJ, LBS |
| | E30580-1434BBS | Instruction Book | 1 | | LBS |
| | BT20025K | Warranty Card | 1 | | C |
| | BT20029C | Warranty Card | 1 | for Australia | A |
| | BT20048B | Warranty Card | 1 | | J, SJ, P, PG |
| | BT20060 | Warranty Card | 1 | | LBS |
| | BT20064A | Warranty Card | 1 | | G |
| | BT20098 | Warranty Card | 1 | for New Zealand | A |
| | BT20044E | Safety Instruction Sheet | 1 | | J |
| | BT20046C | Service Information | 1 | | J, SJ, P, PG |
| | BT20066 | EEC Agency | 1 | | G, LBS |
| | BT20071A | Service Center List | 1 | | C |
| | EQB4001-012 | AM Loop Antena | 1 | | |
| | E304084-001 | Loop Stand | 1 | | |
| | EWP502-001 | Built. in Antena | 1 | | Except G |
| | E67007-001 | Wire Antena Assy | 1 | | G |
| | AM-4J-2PSA | Battery | 2 | | Except SJ |
| | UM-3(DJ)-2PSA | Battery | 1 | | SJ |
| | EMZ2001-007 | Adapter | 1 | | LE, LEF |
| | E74789-001 | REM.Plate | 1 | | Except SJ |
| | E305509-001 | Appendix Sheet | 1 | | Except SJ |
| ⚠ | QMF51A2-5R0S | Fuse | 1 | | U, PG |
| ⚠ | QMF51A2-2R5S | Fuse | 1 | | P |
| | E67142-T5R0 | Fuse Label | 1 | | U, PG |
| | E67142-T2R5 | Fuse Label | 1 | | P |
| | E6581-4 | Envelope | 1 | for Fuse | U, P, PG |
| ⚠ | E04056 | Siemens Plug | 1 | | U, PG |
| | E35497-013 | Caution Sheet | 1 | 110V | P |
| | E35497-015 | Caution Sheet | 1 | 220V | U, PG |
| | RM-SR777 | Remote Controle | 1 | | Except SJ |
| | RM-SR777S | Remote Controle | 1 | | SJ |
| ⚠ | EMC0201-001BS | AC Plug | 1 | | LBS |
| | E43486-165A | Information Sheet | 1 | | LBS |
| | E43486-340A | Safety Sheet | 1 | | LBS |
| | E66416-003 | Envelope | 1 | | J, SJ |
| | E41202-2 | Envelope | 1 | | Except LBS |
| | E41202-2B | Envelope | 1 | | LBS |
| | QZL1008-001 | FTZ Information Sheet | 1 | | G |

⚠: Safety Parts

| The Marks for Designated Areas | |
|---|---|
| J, SJ·····The U.S.A. | LE, LEF·····Continental Europe (with LW) |
| C·····Canada | LBS·····U.K. (with LW) |
| E, EF·····Continental Europe | LGI·····Italy (with LW) |
| A·····Australia | U·····Other Countries |
| G·····West Germany | No mark Indicates all areas. |
| P, PG·····U.S. Military Market | |

# Packing Materials and Parts Numbers




| The Marks for Designated Areas | |
|---|---|
| J, SJ·····The U.S.A. | LE, LEF·····Continental Europe (with LW) |
| C·····Canada | LBS·····U.K. (with LW) |
| E, EF·····Continental Europe | LGI·····Italy (with LW) |
| A·····Australia | U·····Other Countries |
| G·····West Germany | No mark Indicates all areas. |
| P, PG·····U.S. Military Market | |